Manuscript Report No. 87-27

Summary of fish population data collected from eight lakes on the Rat-Burntwood River System, 1985

By Green, D.J. 1987

Manitoba
Natural Resources
Fisheries

Green, D. J. 1987.

Summary of fish population data collected from eight lakes on the Rat-Burntwood River System, 1985.

Fisheries Branch MS Report No. 87-27. 130 pp.

ABSTRACT

Experimental netting was conducted on several lakes along the Rat-Burntwood River Systems as part of the Churchill River Diverson Mercury Monitoring Program (Claim #12) of the Northern Flood Agreement. Information presented within this report came from Pemichigamau, Costello, Suwannee, Notigi, Wapisu, Footprint, Threepoint and Birch Tree lakes.

Summaries of data analysis for catch per unit effort (CUE), age, size and maturity conditions from fish caught from these lakes in 1985 are presented in order to make the data more accessable for future reference.

TABLE OF CONTENTS

	Page
ABSTRACT	*i*
INTRODUCTION	1
METHODS	2
RESULTS	4
LITERATURE CITED	129
ACKNOWLEDGEMENTS	130

LIST OF FIGURES

Figure		Page
1.	Netting locations in Pemichigamau Lake, 1985	6
2.	Netting locations in Costello Lake, 1985	7
3.	Netting locations in Suwannee Lake, 1985	8
4.	Netting locations in Notigi Lake, 1985	9
5.	Netting locations in Wapisu Lake, 1985	10
6.	Netting locations in Footprint Lake, 1985	11
7.	Netting locations in Threepoint Lake, 1985	12
8.	Netting locations in Bird Tree Lake, 1985	13
9.	Age composition for whitefish from Pemichigamau and Birch Tree lakes, 1985,	14
10.	Age composition for whitefish from Costello and Suwannee lakes, 1985	15
11.	Age Composition for whitefish from Notigi and Wapisu lakes, 1985	16
12.	Age composition for whitefish from Footprint and Threepoint Lakes, 1985	17
13.	Age composition for walleye from Pemichigamau and Birch Tree lakes, 1985	18
14.	Age composition for walleye from Costello and Suwannee lakes, 1985	19
15.	Age composition for walleye from Notigi and Wapisu lakes, 1985	20
16.	Age composition for walleye from Footprint and Threepoint lakes, 1985	21
17.	Age composition for northern pike from Pemichigamau and Birch Tree lakes, 1985	22
18.	Age composition for northern pike from Costello and Suwannee lakes, 1985	23
19.	Age composition for northern pike from Notigi and Wapisu lakes, 1985	24

Figure Page

20. Age composition for northern pike from Footprint and Threepoint lakes, 1985 25

21. Fork length frequencies for whitefish from Pemichigamau and Birch Tree lakes, 1985 26

22. Fork length frequencies for whitefish from Costello and Suwannee lakes, 1985 27

23. Fork length frequencies for whitefish from Notigi and Wapisu lakes, 1985 28

24. Fork length frequencies for whitefish from Footprint and Threepoint lakes, 1985 29

25. Fork length frequencies for walleye from Pemichigamau and Birch Tree lakes, 1985 30

26. Fork length frequencies for walleye from Costello and Suwannee lakes, 1985 31

27. Fork length frequencies for walleye from Notigi and Wapisu lakes, 1985 32

28. Fork length frequencies for walleye from Footprint and Threepoint lakes, 1986 33

29. Fork length frequencies for northern pike from Pemichigamau and Birch Tree lakes, 1985 34

30. Fork length frequencies for northern pike from Costello and Suwannee lakes, 1985 35

31. Fork length frequencies for northern pike from Notigi and Wapisu lakes, 1985 36

32. Fork length frequencies for northern pike from Footprint and Threepoint lakes, 1985 37

33. Fork length frequencies for cisco from Pemichigamau and Birch Tree lakes, 1985 38

34. Fork length frequencies for cisco from Costello Lake, 1985 39

35. Fork length frequencies for cisco from Notigi and Wapisu lakes, 1985. 40

36. Fork length frequencies for cisco from Footpoint and Threepoint lakes, 1985 41

Figure Page

37. Fork length frequencies for white sucker from Costello and Suwannee lakes, 1985 42

38. Fork length frequencies for white sucker from Threepoint Lake, 1985 43

39. Fork length frequencies for yellow perch from Costello and Suwannee lakes, 1985 44

LIST OF TABLES

Table		Page
1.	Catch summaries for experimental fishing sets in Pemichigamau Lake, June 28 - July 1, 1985	45
2.	Catch summaries for experimental sets in Costello Lake, May 30 - June 2, 1985	45
3.	Catch summaries for expermental fishing sets in Suwannee Lake, June 2 - June 13, 1985	46
4.	Catch summaries for experimental fishing sets in Notigi Lake, June 17 - June 27, 1985	46
5.	Catch summaries for experimental fishing sets in Wapisu Lake, June 13 - June 17, 1985	47
6.	Catch summaries for experimental fishing sets in Footprint Lake, June 10 - June 16, 1985	47
7.	Catch summaries for experimental fishing sets in Threepoint Lake, June 15 - June 27, 1985	48
8.	Catch summaries for experimental sets in Birch Tree Lake, May 29 - June 2, 1985	48
9.	Percent frequency of occurrence and catch per unit effort (CUE) in parenthesis for fish caught in the Rat-Burntwood River System lakes, 1985	49
10.	Sum lengths (m) and sum weights (kg) of fish caught in 8 experimental fishing sets in Pemichigamau Lake, 1985 .	50
11.	Sum lengths (m) and sum weights (kg) of fish caught in 6 experimental fishing sets in Costello Lake, 1985 . . .	51
12.	Sum lengths (m) and sum weights (kg) of fish caught in 6 experimental fishing sets in Suwannee Lake, 1985 . . .	52
13.	Sum lengths (m) and sum weights (kg) of fish caught in 8 experimental fishing sets in Notigi Lake, 1985	53
14.	Sum lengths (m) and sum weights (kg) of fish caught in 10 experimental fishing sets in Wapisu Lake, 1985 . . .	54
15.	Sum lengths (m) and sum weights (kg) of fish caught in 7 experimental fishing sets in Footprint Lake, 1985 . . .	55
16.	Sum lengths (m) and sum weights (kg) of fish caught in 6 experimental fishing sets in Threepoint Lake, 1985 . .	56

Table		Page
17.	Sum lengths (m) and sum weights (kg) of fish caught in 8 experimental fishing sets in Birch Tree Lake, 1985 .	57
18.	Mesh size effects on whitefish catches in Pemichigamau Lake, 1985	58
19.	Mesh size effects on whitefish catches in Costello Lake, 1985	59
20.	Mesh size effects on whitefish catches in Suwannee Lake, 1985	60
21.	Mesh size effects on whitefish catches in Notigi Lake, 1985	61
22.	Mesh size effects on whitefish catches in Wapisu Lake, 1985	62
23.	Mesh size effects on whitefish catches in Footprint Lake, 1985	63
24.	Mesh size effects on whitefish catches in Threepoint Lake, 1985	64
25.	Mesh size effects on whitefish catches in Birch Tree Lake, 1985	65
26.	Mesh size effects on walleye catches in Pemichigamau Lake, 1985	66
27.	Mesh size effects on walleye catches in Costello Lake, 1985	67
28.	Mesh size effects on walleye catches in Suwannee Lake, 1985	68
29.	Mesh size effects on walleye catches in Notigi Lake, 1985	69
30.	Mesh size effects on walleye catches in Wapisu Lake, 1985	70
31.	Mesh size effects on walleye catches in Footprint Lake, 1985	71
32.	Mesh size effects on walleye catches in Threepoint Lake, 1985	72
33.	Mesh size effects on walleye catches in Birch Tree Lake, 1985	73

Table		Page
34.	Mesh size effects on sauger catches in Wapisu Lake, 1985	74
35.	Mesh size effects on sauger catches in Footprint Lake, 1985	75
36.	Mesh size effects on sauger catches in Threepoint Lake, 1985	76
37.	Mesh size effects on northern pike catches in Pemichigamau Lake, 1985	77
38.	Mesh size effects on northern pike catches in Costello Lake, 1985	78
39.	Mesh size effects on northern pike catches in Suwannee Lake, 1985	79
40.	Mesh size effects on northern pike catches in Notigi Lake, 1985	80
41.	Mesh size effects on northern pike catches in Wapisu Lake, 1985	81
42.	Mesh size effects on northern pike catches in Footprint Lake, 1985	82
43.	Mesh size effects on northern pike catches in Threepoint Lake, 1985	83
44.	Mesh size effects on northern pike catches in Birch Tree Lake, 1985	84
45.	Mesh size effects on white sucker, longnose sucker and burbot catches in Pemichigamau Lake, 1985	85
46.	Mesh size effects on sauger, cisco and yellow perch catches in Pemichigamau Lake, 1985	86
47.	Mesh size effects on cisco, white sucker and yellow perch catches in Costello Lake, 1985	87
48.	Mesh size effects on cisco, white sucker and longnose sucker catches in Suwannee Lake, 1985	88
49.	Mesh size effects on yellow perch and burbot catches in Suwannee Lake, 1985	89
50.	Mesh size effects on cisco, white sucker, yellow perch and burbot catches in Notigi Lake, 1985	90

Table		Page
51.	Mesh size effects on cisco, yellow perch and burbot catches in Wapisu Lake, 1985	91
52.	Mesh size effects on white sucker, longnose and shorthead redhorse sucker catches in Wapsiu Lake, 1985	92
53.	Mesh size effects on cisco and white sucker catches in Footprint Lake, 1985	93
54.	Mesh size effects on yellow perch, burbot and goldeye catches in Footprint Lake, 1985	94
55.	Mesh size effects on cisco, white sucker and longnose sucker catches in Threepoint Lake, 1985	95
56.	Mesh size effects on yellow perch and burbot catches in Threepoint Lake, 1985	96
57.	Mesh size effects on sauger, cisco, yellow perch and burbot catches in Birch Tree Lake, 1985	97
58.	Mesh size effects on white sucker, longnose sucker and shorthead redhorse catches in Birch Tree Lake, 1985	98
59.	Age specific size and maturity conditions for whitefish from Pemichigamau Lake, 1985	99
60.	Age specific size and maturity conditions for whitefish from Costello Lake, 1985	100
61.	Age specific size and maturity conditions for whitefish from Suwannee Lake, 1985	101
62.	Age specific size and maturity conditions for whitefish from Notigi Lake, 1985	102
63.	Age specific size and maturity conditions for whitefish from Wapisu Lake, 1985	103
64.	Age specific size and maturity conditions for whitefish from Footprint Lake, 1985	104
65.	Age specific size and maturity conditions for whitefish from Threepoint Lake, 1985	105
66.	Age specific size and maturity conditions for whitefish from Birch Tree Lake, 1985	106
67.	Age specific size and maturity conditions for walleye from Pemichigamau Lake, 1985	107

Table		Page
68.	Age specific size and maturity conditions for walleye from Costello Lake, 1985	108
69.	Age specific size and maturity conditions for walleye from Suwannee Lake, 1985	109
70.	Age specific size and maturity conditions for walleye from Notigi Lake, 1985	110
71.	Age specific size and maturity conditions for walleye from Wapisu Lake, 1985	111
72.	Age specific size and maturity conditions for walleye from Footprint Lake, 1985	112
73.	Age specific size and maturity conditions for walleye from Threepoint Lake, 1985	113
74.	Age specific size and maturity conditions for walleye from Birch Tree Lake, 1985	114
75.	Age specific size and maturity conditions for sauger from Wapisu Lake, 1985	115
76.	Age specific size and maturity conditions for sauger from Threepoint Lake, 1985	116
77.	Age specific size and maturity conditions for northern pike from Pemichigamau Lake, 1985	117
78.	Age specific size and maturity conditions for northern pike from Costello Lake, 1985	118
79.	Age specific size and maturity conditions for northern pike from Suwannee Lake, 1985	119
80.	Age specific size and maturity conditions for northern pike from Notigi Lake, 1985	120
81.	Age specific size and maturity conditions for northern pike from Wapisu Lake, 1985	121
82.	Age specific size and maturity conditions for northern pike from Footprint Lake, 1985	122
83.	Age specific size and maturity conditions for northern pike from Threepoint Lake, 1985	123
84.	Age specific size and maturity conditions for northern pike from Birch Tree Lake, 1985	124

Table		Page
85.	Length-weight regression for fish caught from Pemichigamau Lake, 1985	125
86.	Length-weight regressions for fish caught from Costello Lake, 1985	125
87.	Length-weight regressions for fish caught from Suwannee Lake, 1985	126
88.	Length-weight regressions for fish caught from Notigi Lake, 1985	126
89.	Length-weight regressions for fish caught from Wapisu Lake, 1985	127
90.	Length-weight regressions for fish caught from Footprint Lake, 1985	127
91.	Length-weight regressions for fish caught from Threepoint Lake, 1985	128
92.	Length-weight regressions for fish caught from Birch Tree Lake, 1985	128

INTRODUCTION

Data presented in this report were collected in the summer of 1985 as part of Project 3.3 under the Canada - Manitoba Agreement on the Study and Monitoring of Mercury in the Churchill River Diversion.

Lakes located on the Rat - Burntwood main river channels were permanently flooded in the mid - 1970's with the hydro-electric development of the Churchill River Diverion. Elevated muscle mercury levels reported from routine inspections of commercial catches from lakes that were commercially fished caused concern over: a) the possible health hazard posed to people living close to and frequently utilizing the fishery resource and b) the need to close the commercial fishery because excessive muscle levels in walleye and northern pike prevented these fish from being marketed. These factors lead to the Mercury Monitoring Agreement in accordance with Claim #12 of the Northern Flood Agreement. A summary of programs and objectives of the Mercury Monitoring Agreement as well as fish related mercury data is given by Green (1986).

Summaries of fish population parameters such as catch-per-unit -effort, mesh size effects on fish catches, age and size relationships are presented in this report. Two of the lakes, Costello and Suwannee, are unflooded tributary lakes of the flooded Rat Lake on the Rat River. These lakes were sampled in order to provide some background information on fish Hg levels.

The purpose of this report is to give baseline analyses and summary of fish data collected so it may be readily available for further analytical and management decisions.

METHODS

Standard gangs of multi-filament nylon gillnets were used to collect fish for mercury (Hg) samples. The standard gang consisted of six nets, each of a differing mesh size. The mesh sizes used were: 1.5"(3.8cm), 2.0"(5.1cm), 3.0"(7.6cm), 3.75"(9.5cm), 5.24"(10.8cm) and 5.0"(12.7cm) stretched measure. Each net was 25 yards (22.9m) long and 6 feet (1.8m) deep. Gillnet sets were placed on the lake bottom for overnight, usually 16 - 20 h duration.

Whenever possible, the number of fish collected for Hg sampling from each lake were 50 specimens per species for whitefish, walleye, sauger and northern pike and 30 specimens per species of any other species caught. Attempts were made to fulfill the sample number requirements of the principal commercial fish species (i.e. whitefish, walleye, sauger and northern pike). However, if it became too time consuming to obtain the desired pre-determined sample number for all four species, then experimental netting on that particular lake was terminated.

Fork length and round weight measurements were recorded from all fish being sampled for Hg. Sex and state of maturity were recorded and ageing structures were taken from the principal commercial species as well. Once the pre-determined number of fish for Hg analysis had been sampled, the remaining fish were usually only identified, counted and bulk weighed. However, all individual fish of the principal commercial species were fully sampled in Notigi, Wapisu and Birch Tree lakes.

Ageing structures collected were: otoliths and first three pectoral fin rays from whitefish, otoliths and first three dorsal spines from walleye and sauger, and the left cleithrium and first three pectoral fin rays from northern pike.

RESULTS

Similar forms of summaries (e.g. fork length frequencies) presented within this report have been grouped together. Summary information from the different lakes is given in an upstream to downstream order. Data from different species is usually presented in an order of whitefish, walleye, sauger, northern pike, cisco and sucker species. Any remaining species are given as occurrence permitted.

Analyses, such as maturity rates, mortality and survival, and Brody growth curves were not included within this report. Most samples containing the pertinent information for the former types of analysis were too small in order to give confident results. As mentioned previously in the Methods section, not all fish were fully sampled once the desired number of Hg samples had been completed on that particular species. If desired, these analyses can be performed from the information given in the following mentioned tables.

Netting locations and depths of each set are presented in Figs. 1 - 8. Age compositions are shown in Figs. 9 - 20. Ages used were those derived from otoliths of whitefish, walleye and sauger and cleithrium from northern pike. Fork length frequencies are illustrated in Figs. 21 - 38.

Catch summaries from experimental fishing sets of all eight lakes are given in Tables 1 - 8. Average catches per unit effort (CUE) and the relative abundance of each species are compared in Table 9. Total weights of each species caught from the different mesh sizes and from each lake are presented in Tables 10 - 17. Mesh size effects on individual species are illustrated in Tables 18 - 58. Age specific

size and maturity conditions for the principal commercial species are presented in Tables 59 - 84. Ageing structures were only collected from these species only. Length weight regressions for all species are given in Tables 85 - 92.

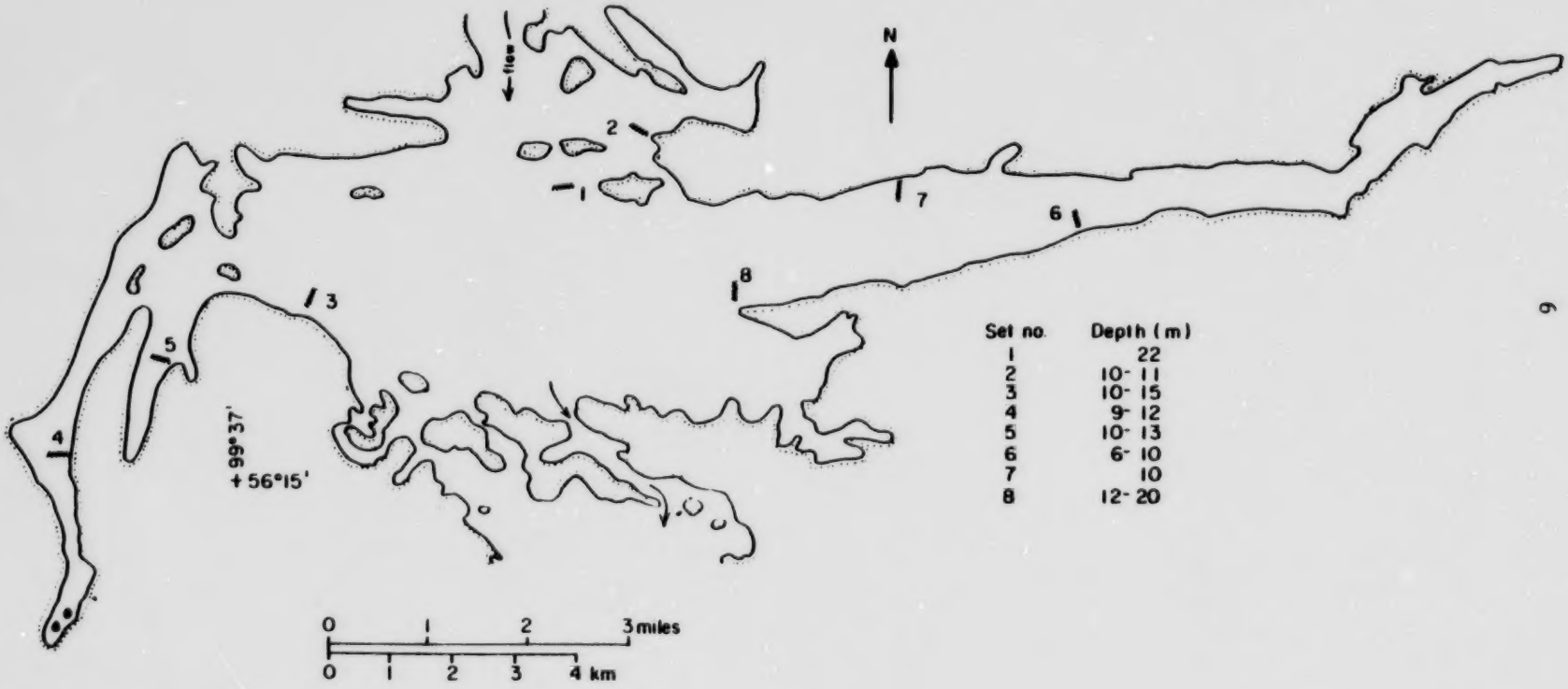

Fig. 1. Netting locations in Pemichigamau Lake, 1985.

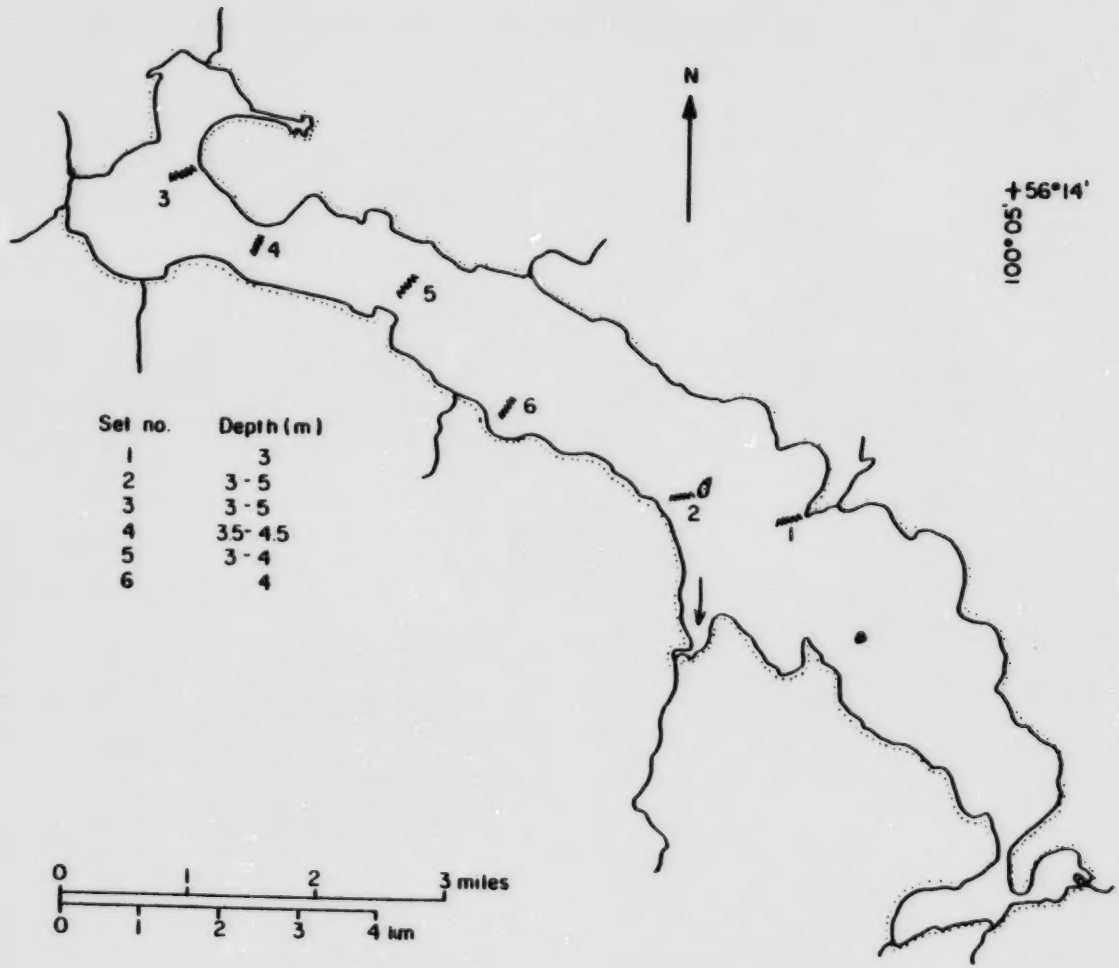

Fig. 2. Netting locations in Costello Lake, 1985.

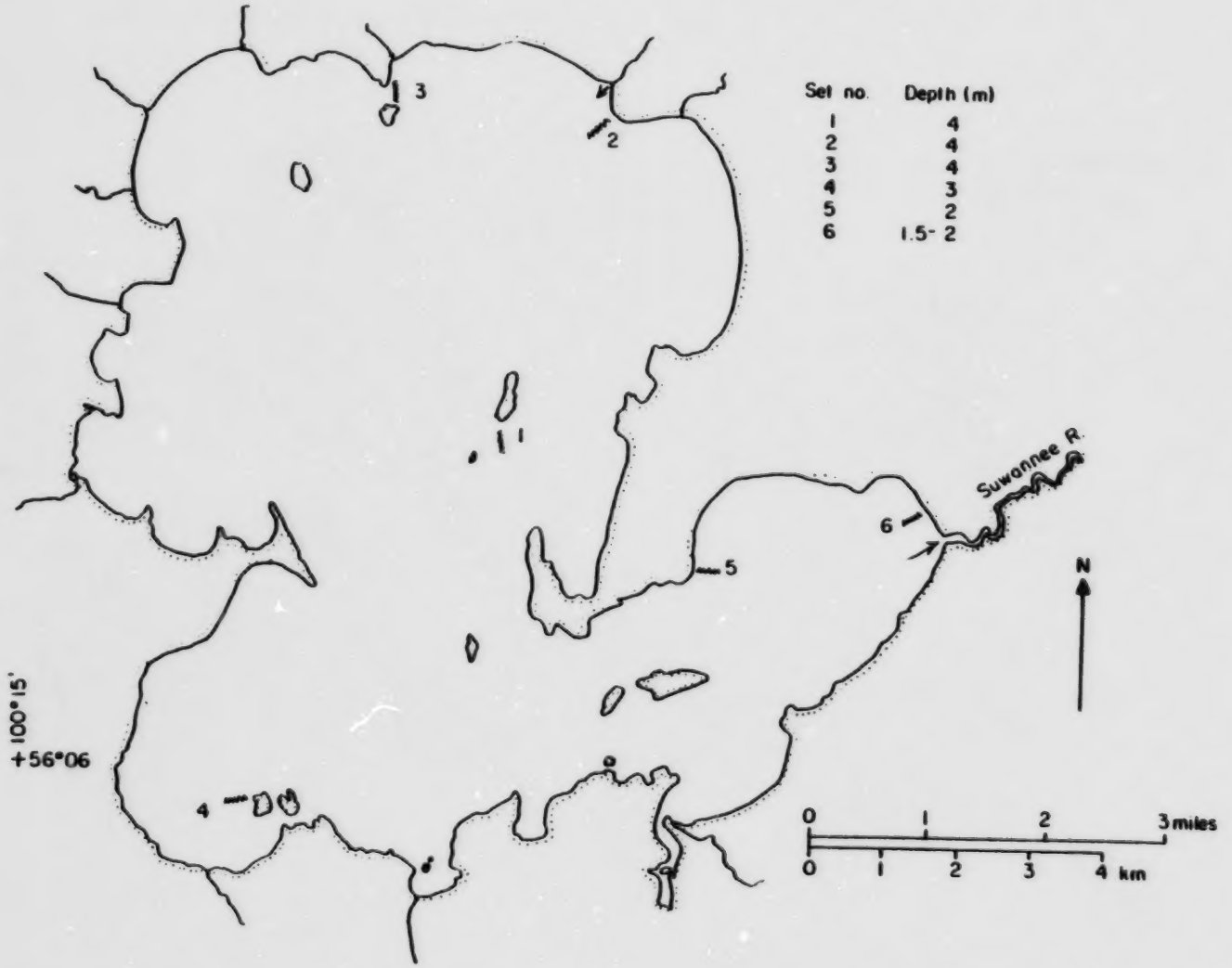

Fig. 3. Netting locations in Suwannee Lake, 1985.

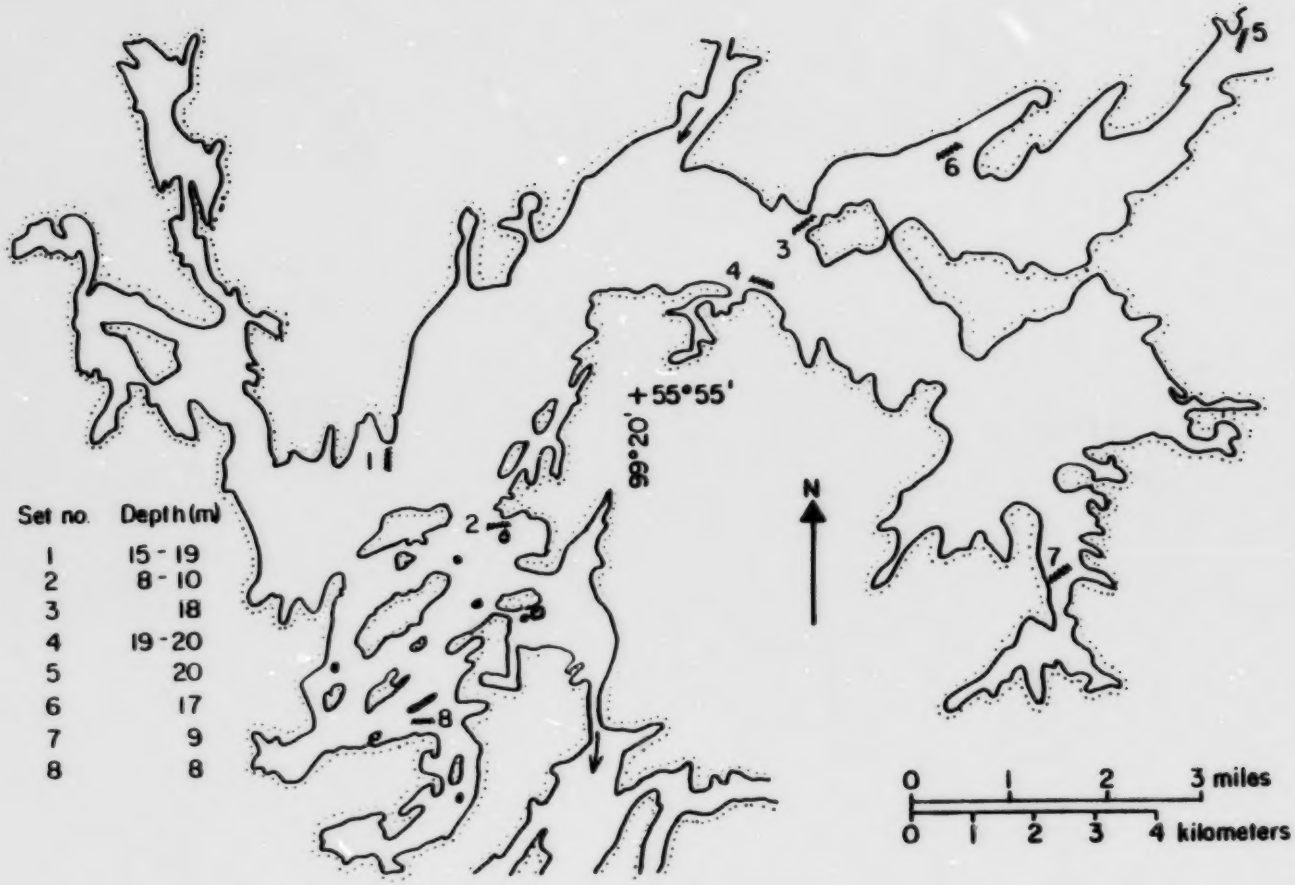

Fig. 4. Netting locations in Notigi Lake, 1985.

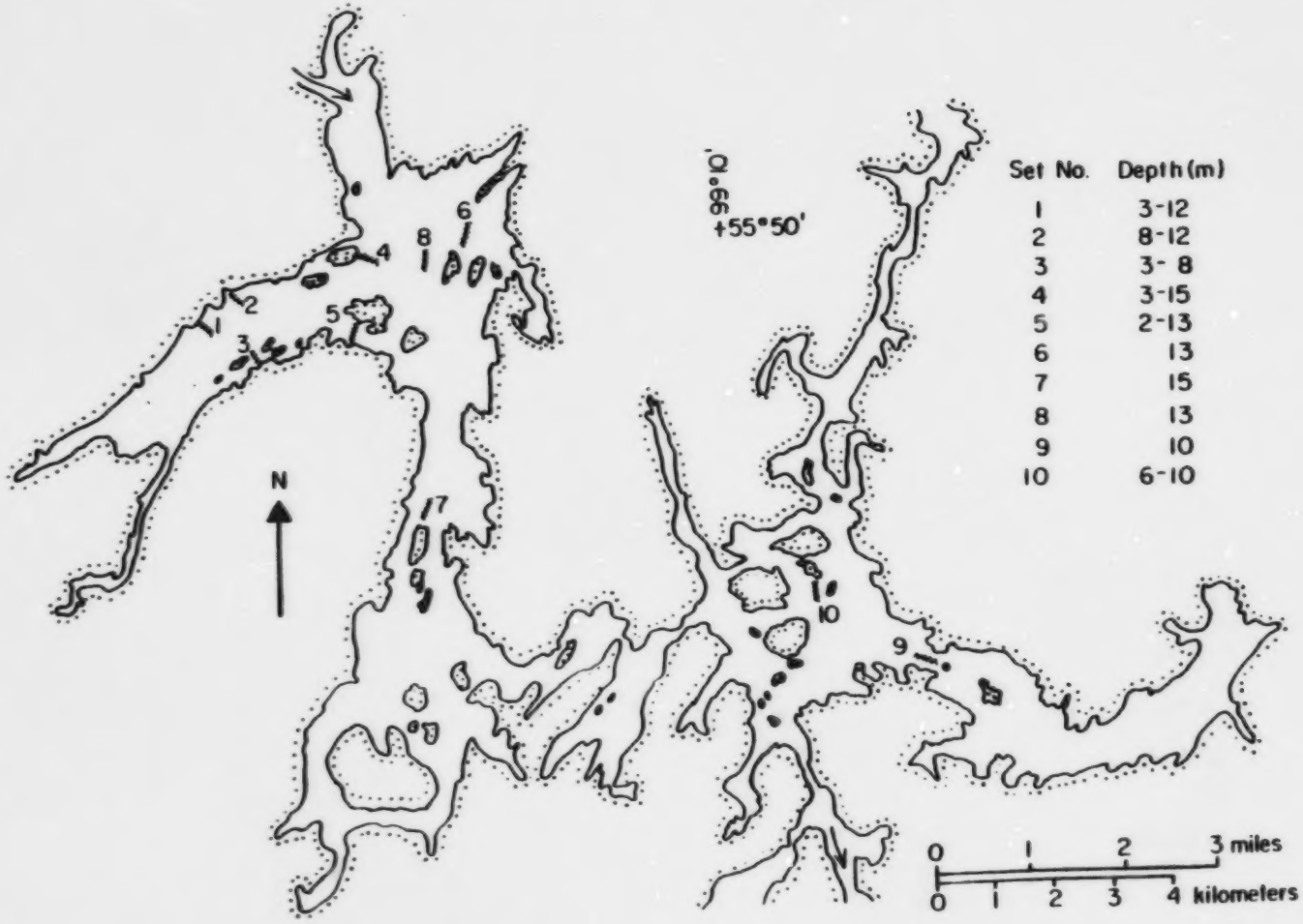

Fig. 5. Netting locations in Wapisu Lake, 1985.

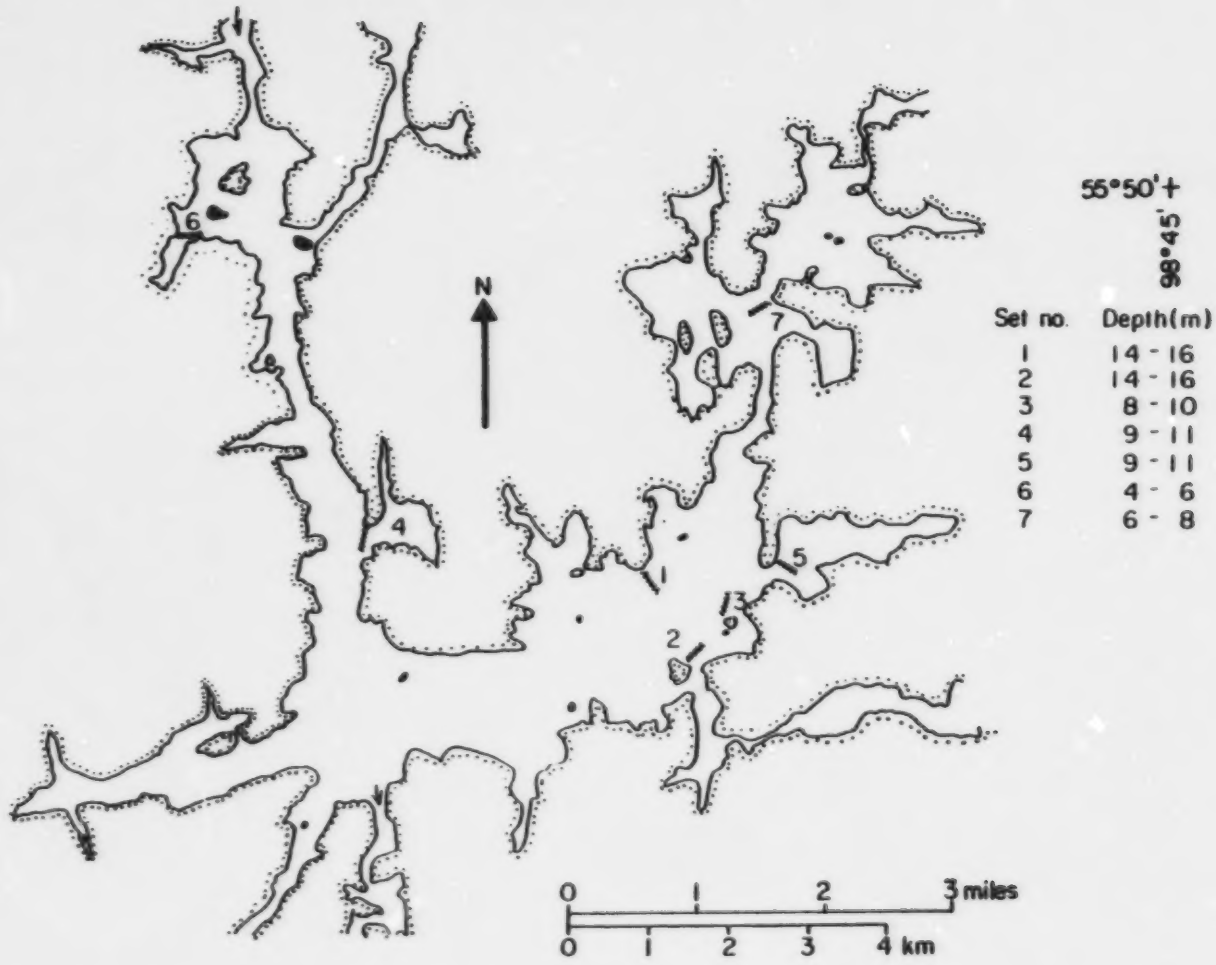

Fig. 6. Netting locations in Footprint Lake, 1985.

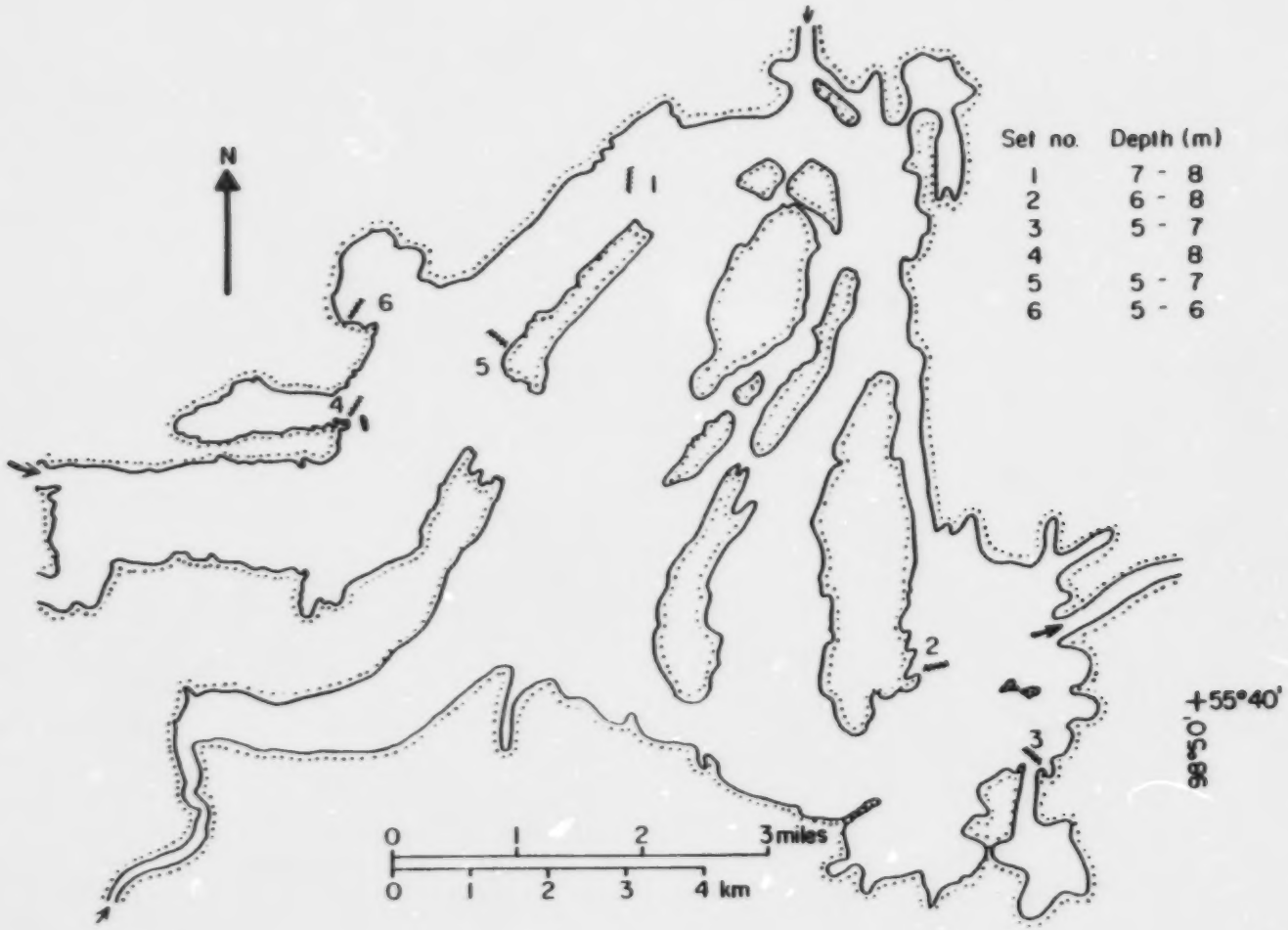

Fig. 7. Netting locations in Threepoint Lake, 1985.

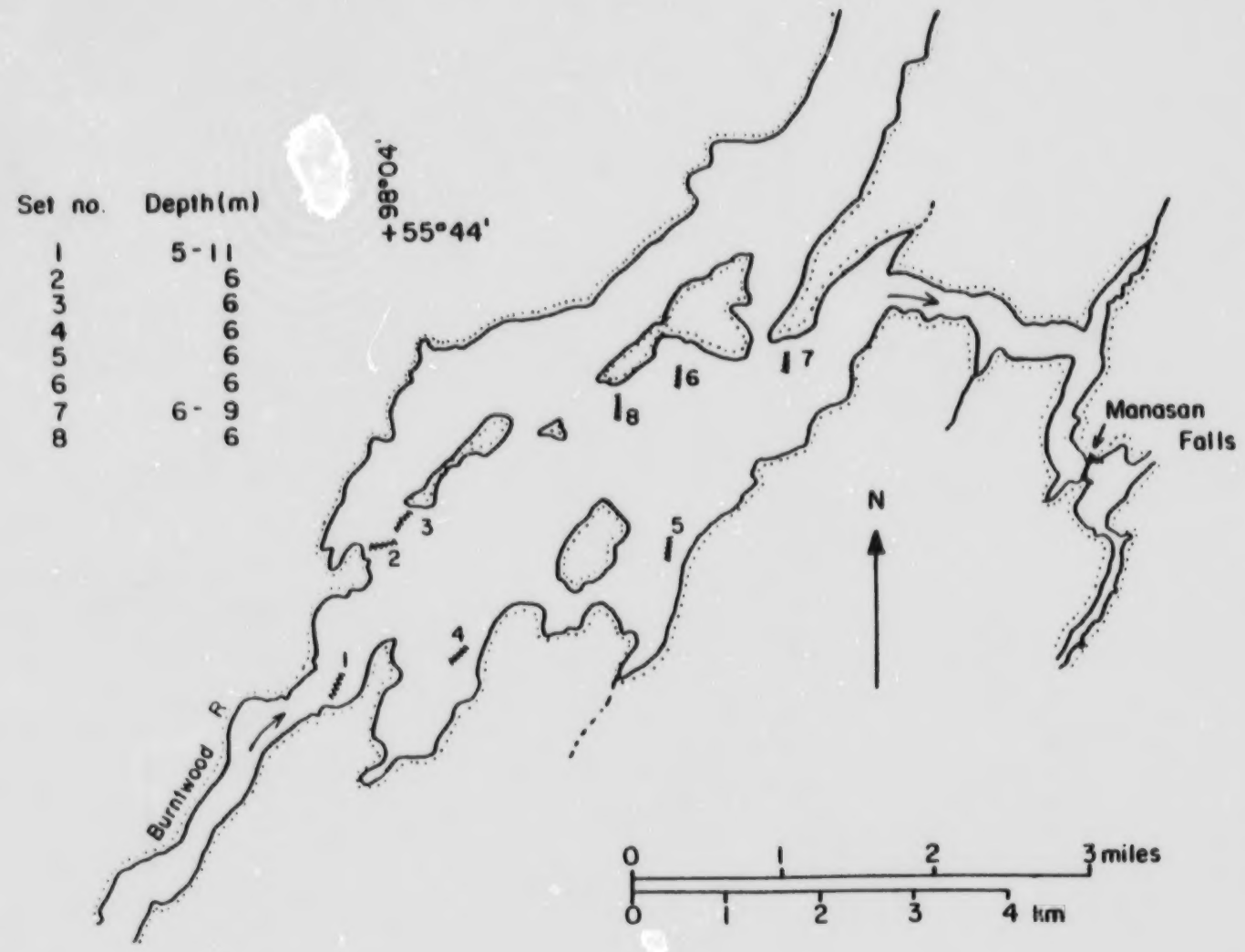

Fig. 8. Netting locations in Birch Tree Lake, 1985.

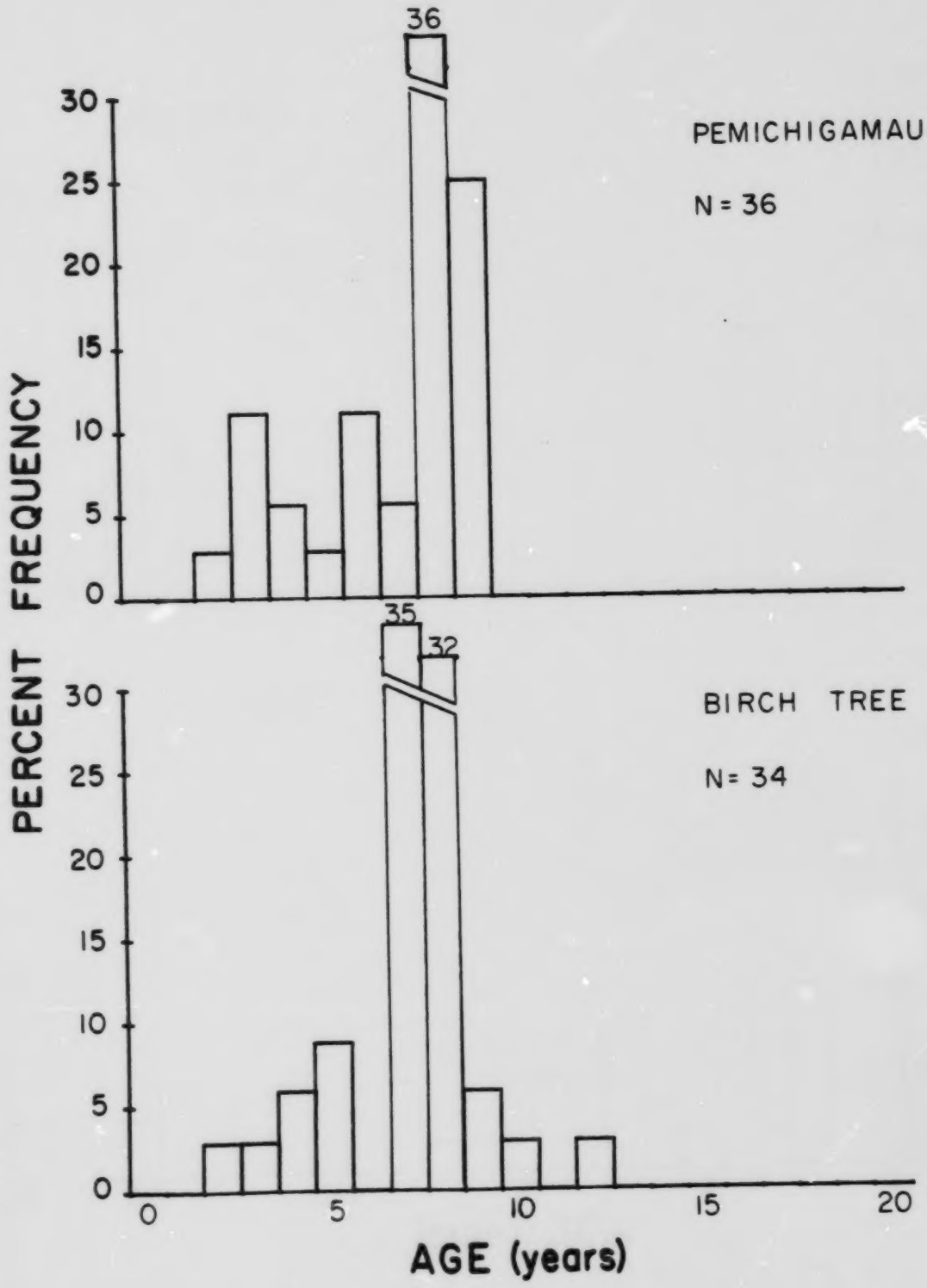

Fig. 9. Age composition for whitefish from Pemichigamau and Birch Tree lakes, 1985.

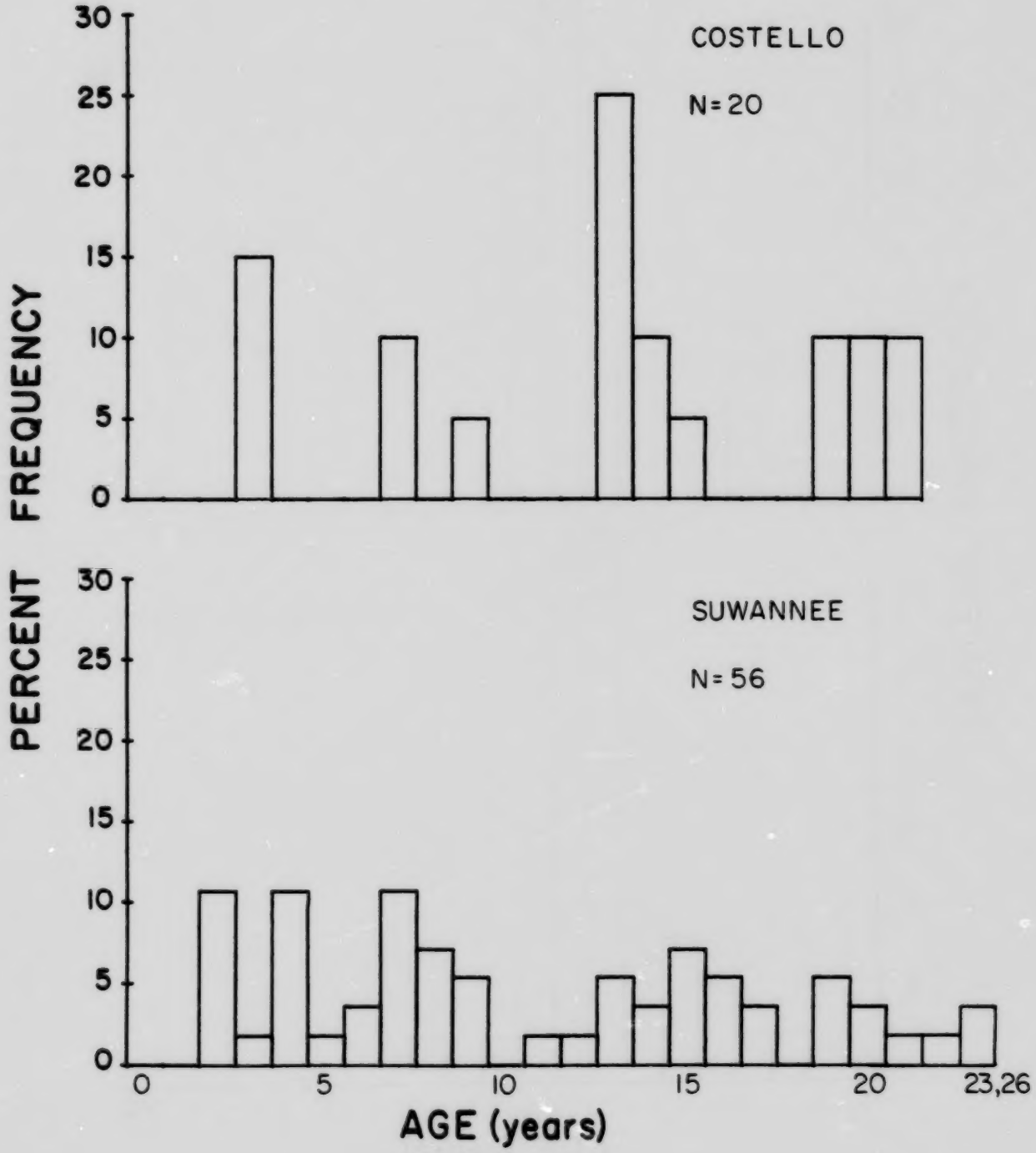

Fig. 10. Age composition of whitefish from Costello and Suwannee lakes, 1985.

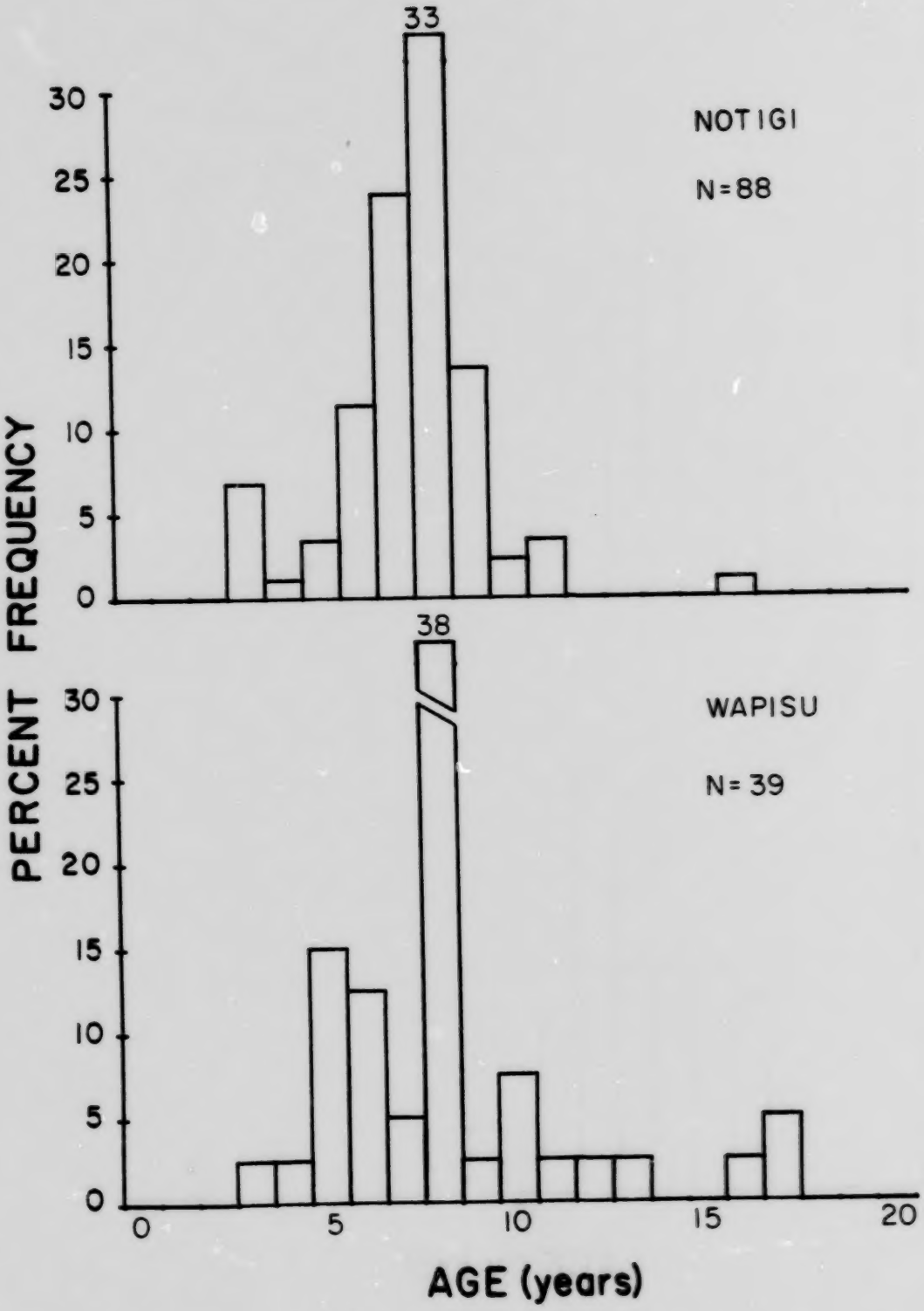

Fig. 11. Age composition for whitefish from Notigi and Wapisu lakes, 1985.

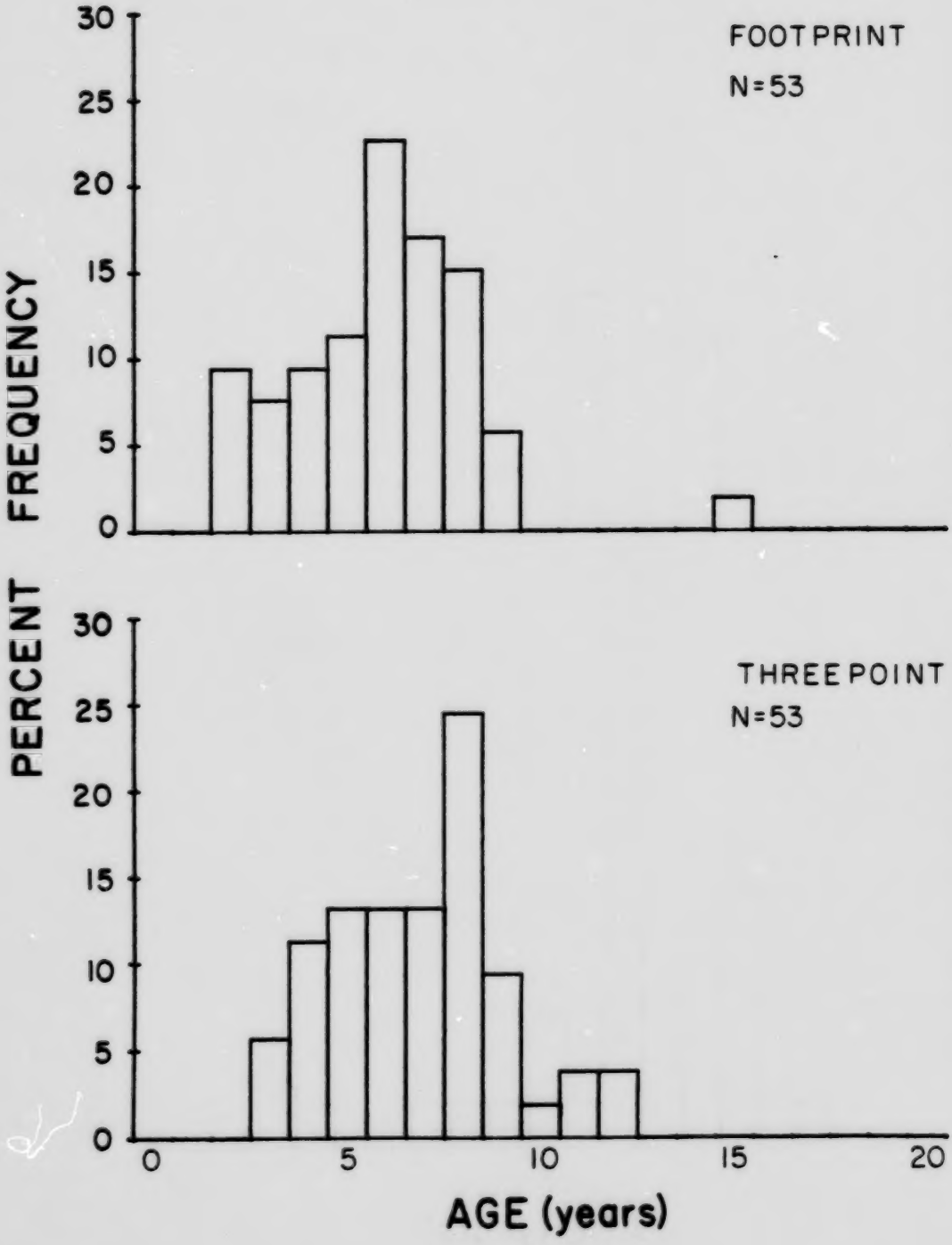

Fig. 12. Age composition for whitefish from Footprint and Threepoint lakes, 1985.

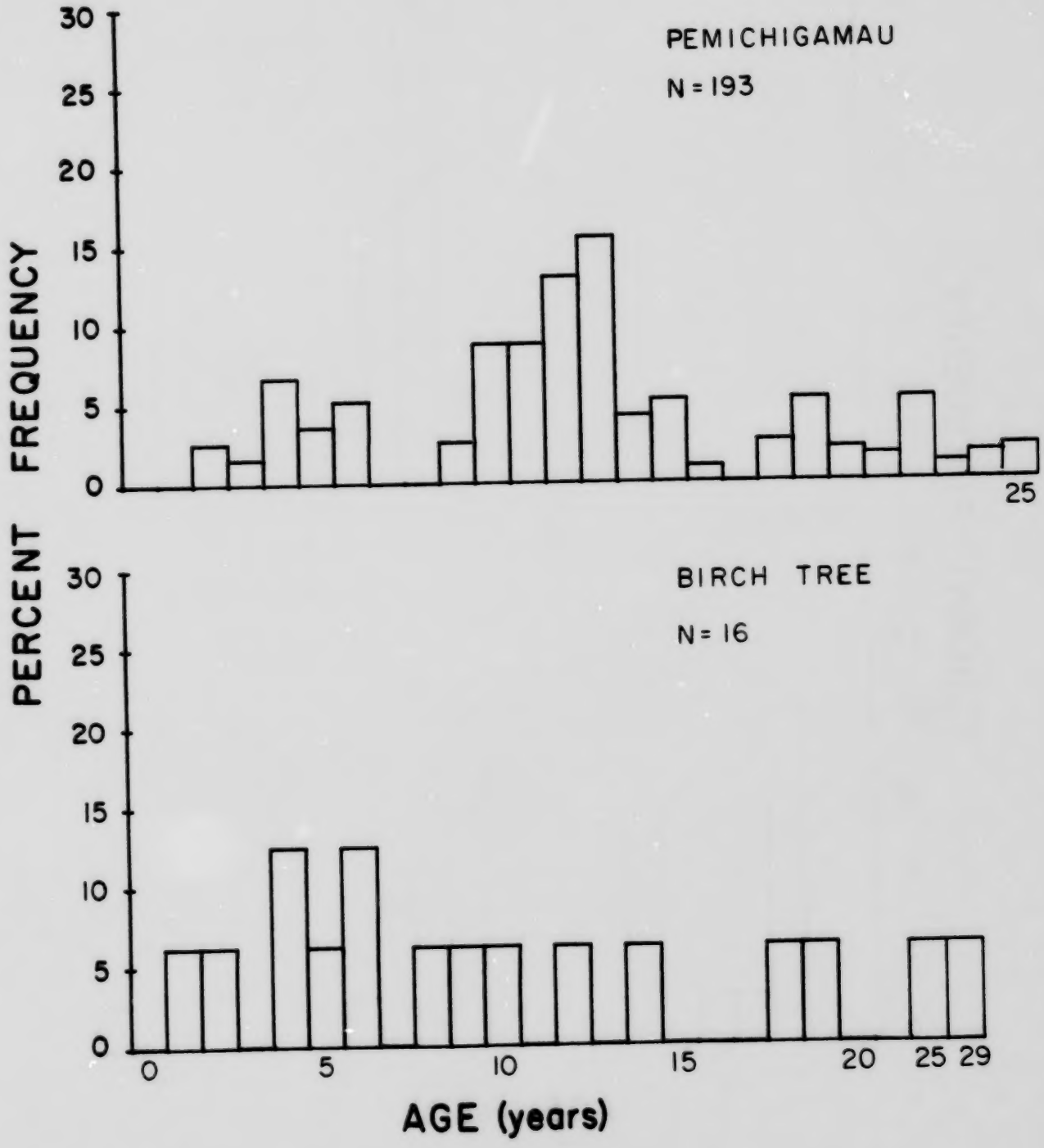

Fig. 13. Age composition for walleye from Pemichigamau and Birch Tree lakes, 1985.

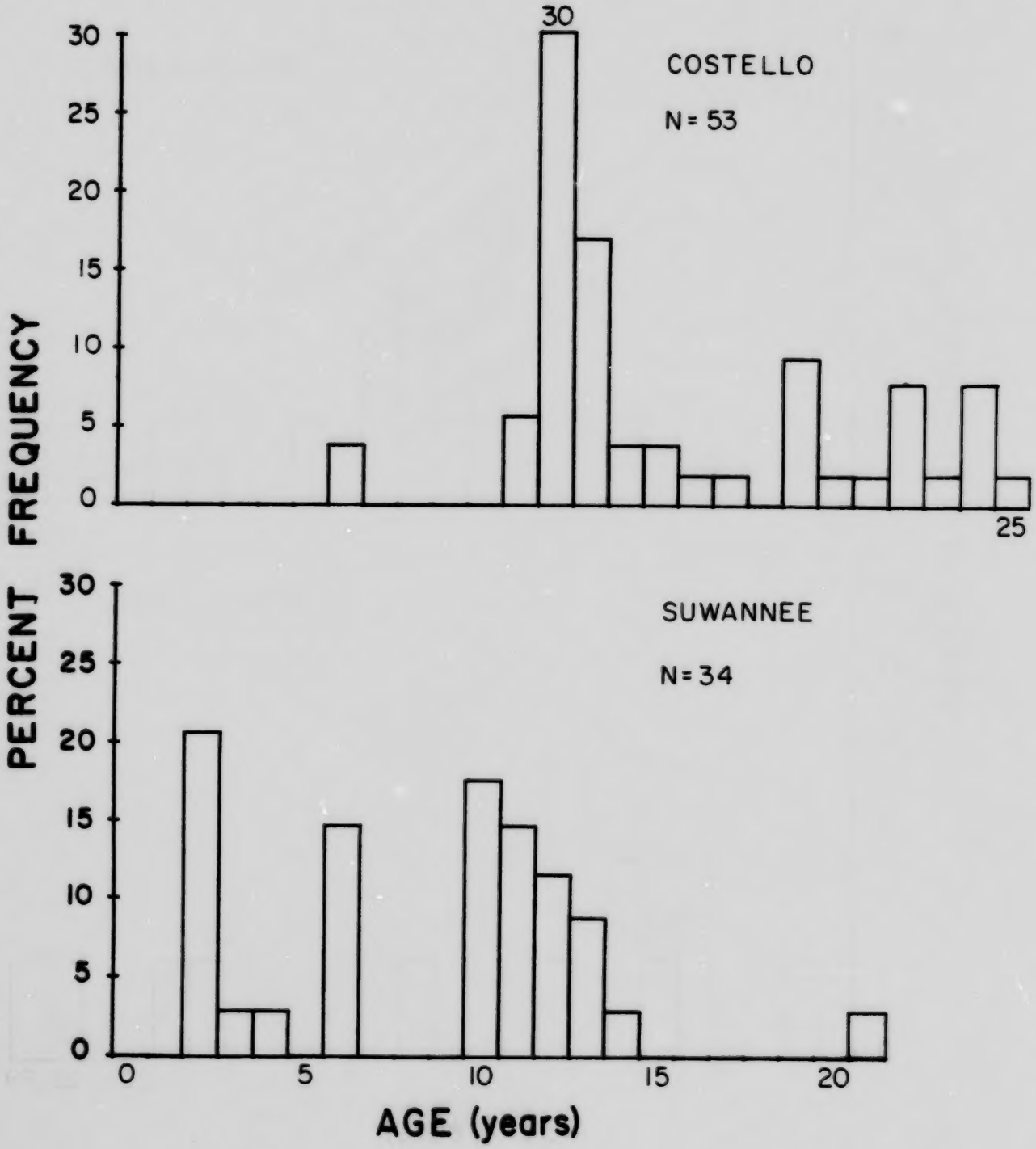

Fig. 14. Age composition for walleye from Costello and Suwannee lakes, 1985.

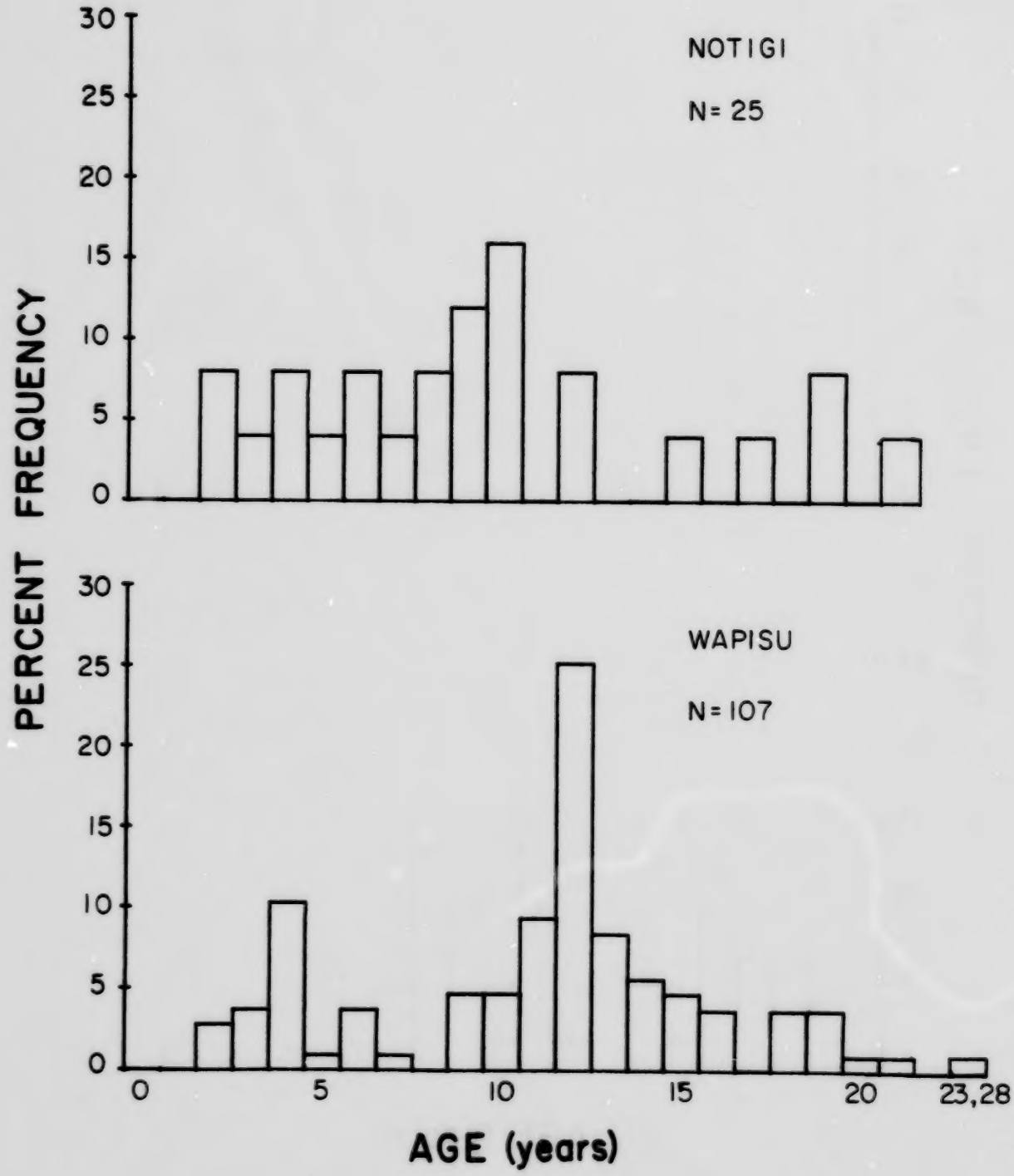

Fig. 15. Age composition for walleye from Notigi and Wapisu lakes, 1985.

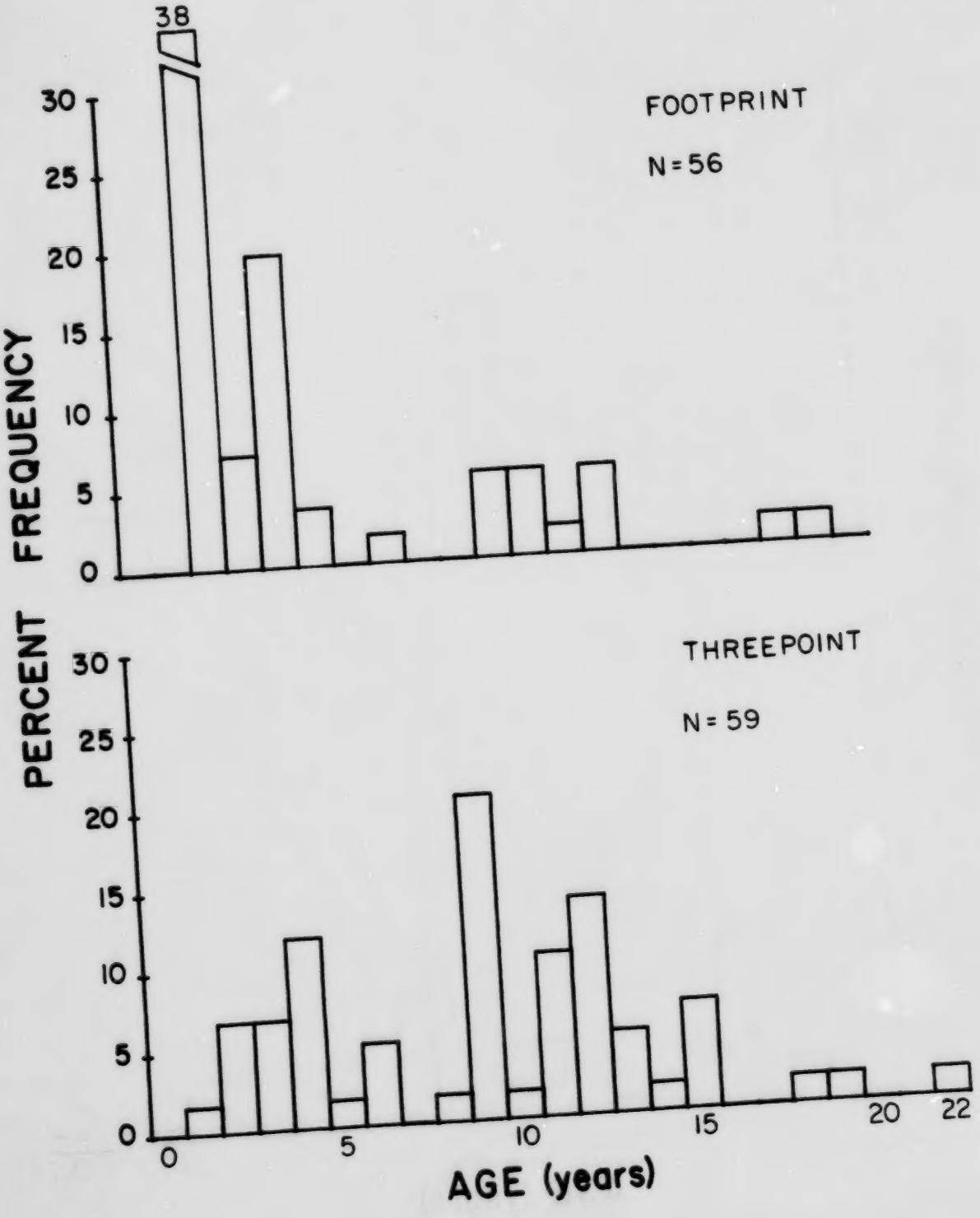

Fig. 16. Age composition for walleye from Footprint and Threepoint lakes, 1985.

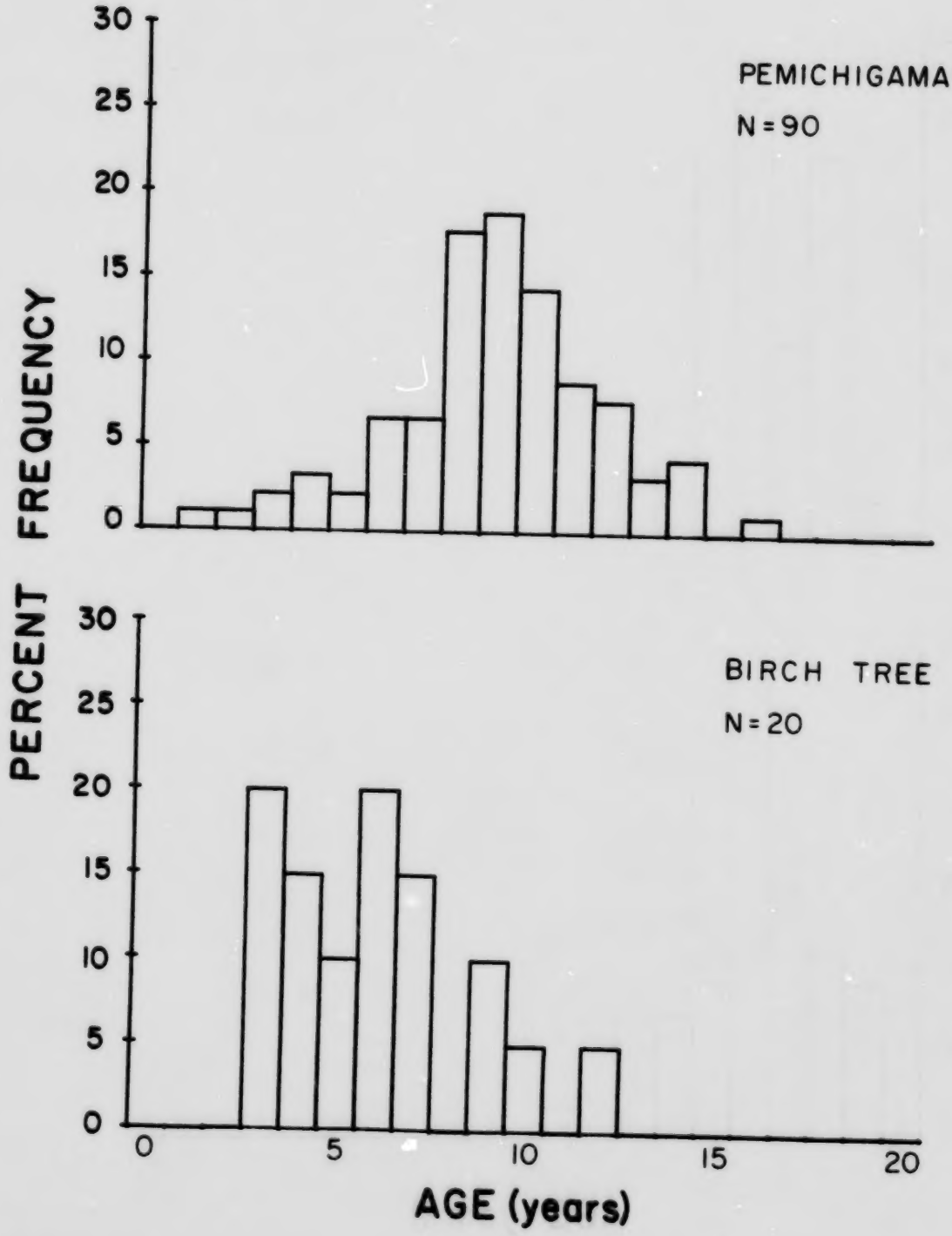

Fig. 17. Age composition for northern pike from Pemichigamau and Birch Tree lakes, 1985.

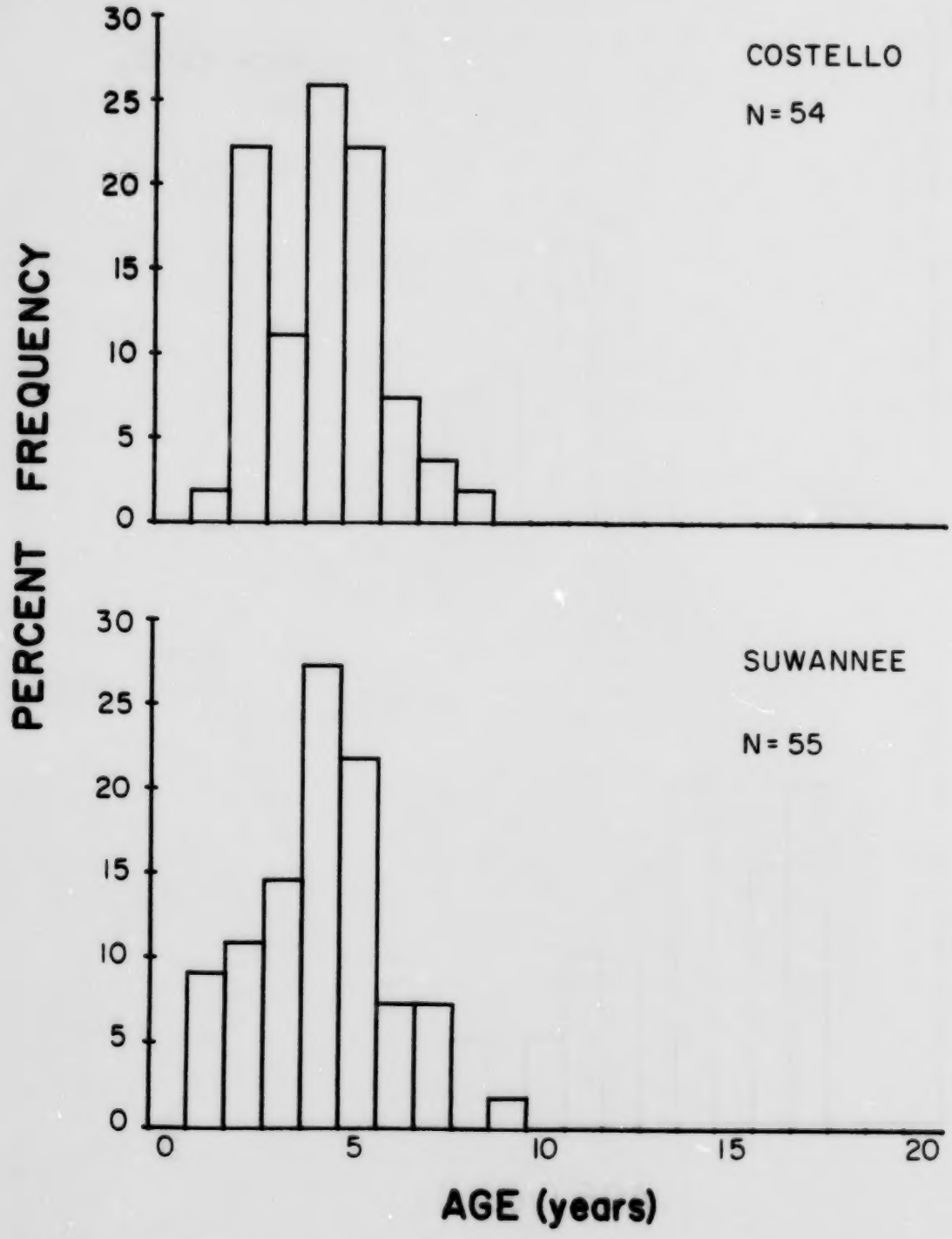

Fig. 18. Age composition for northern pike from Costello and Suwannee lakes, 1985.

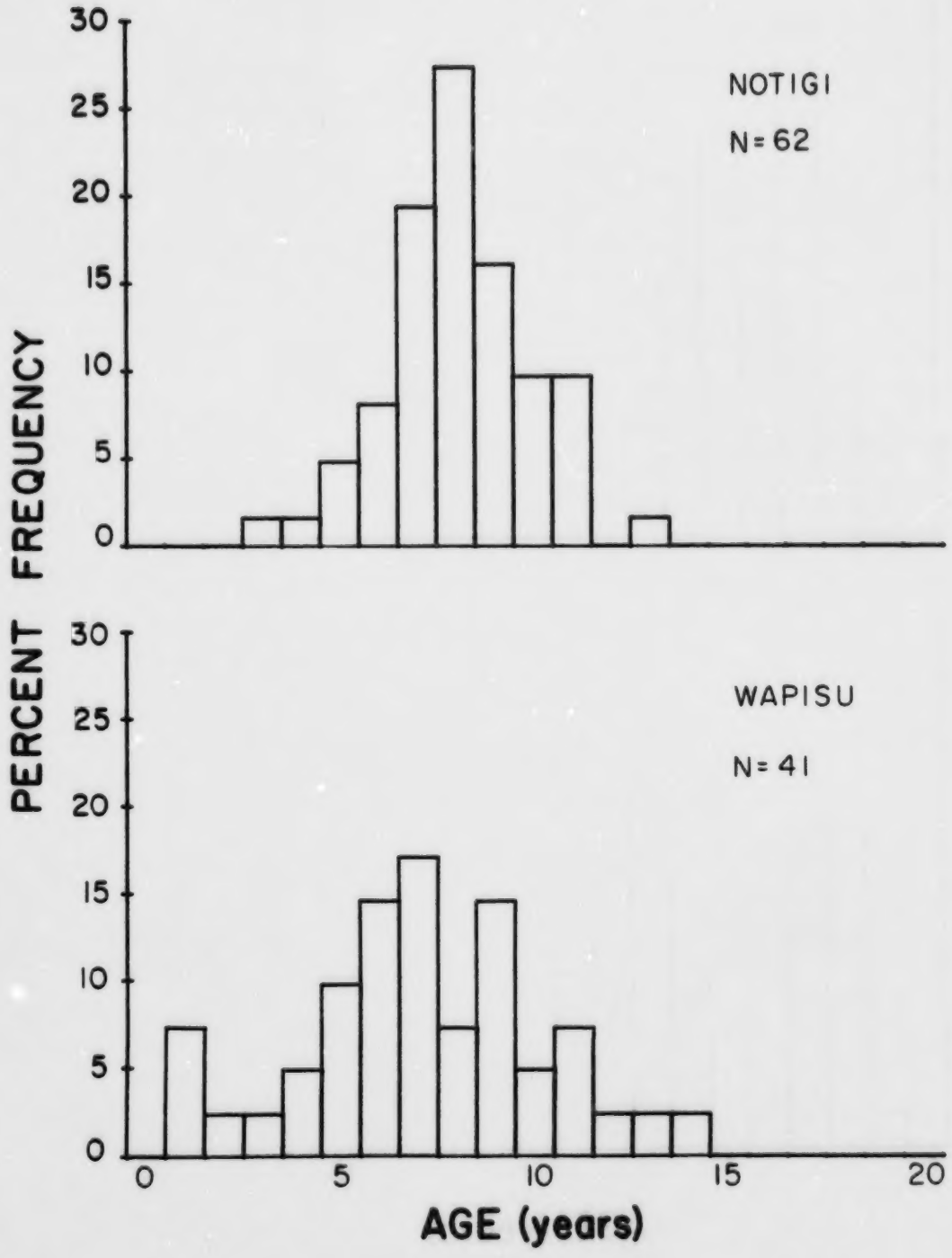

Fig. 19. Age composition for northern pike from Notigi and Wapisu lakes, 1985.

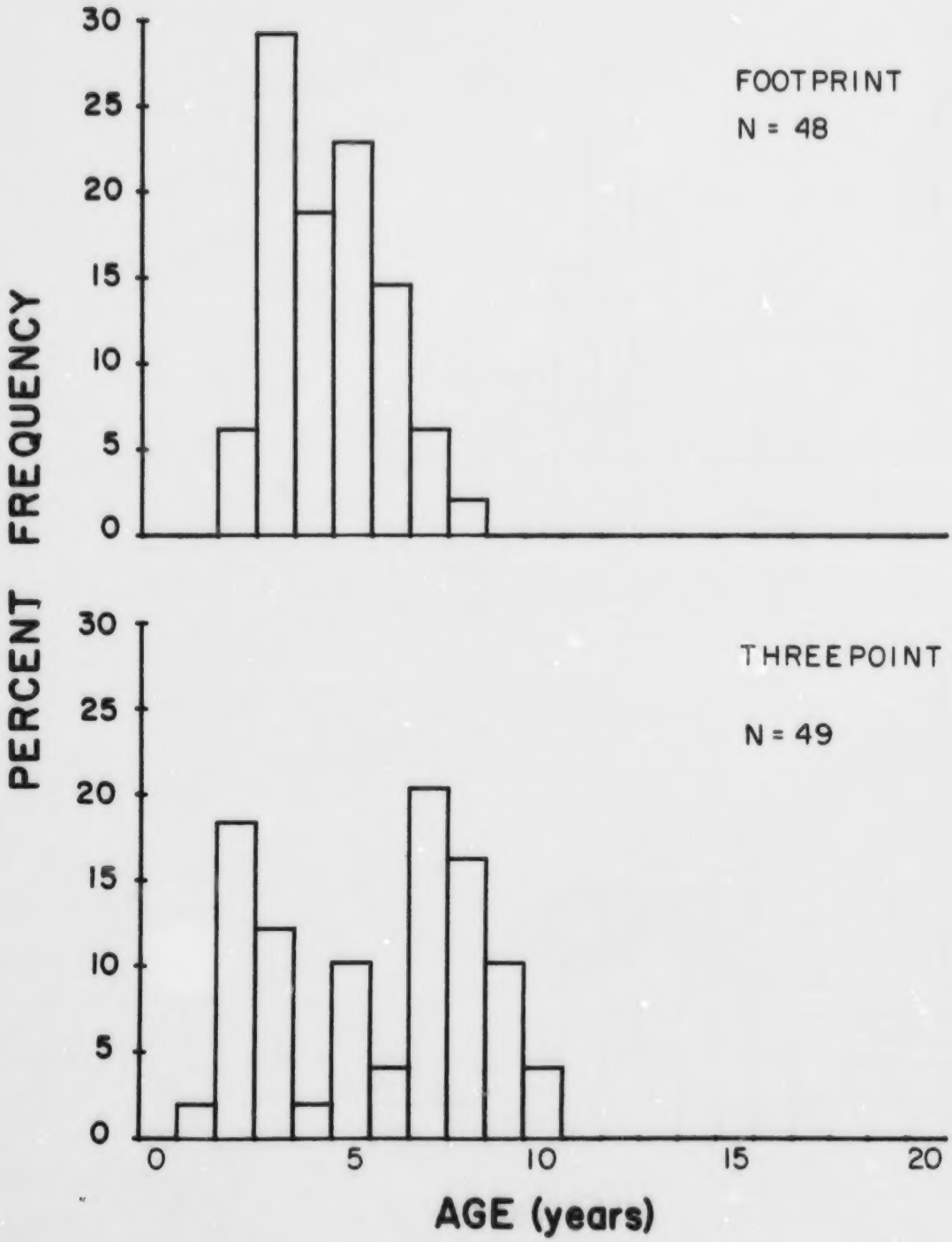

Fig. 20. Age composition for northern pike from Footprint and Threepoint lakes, 1985.

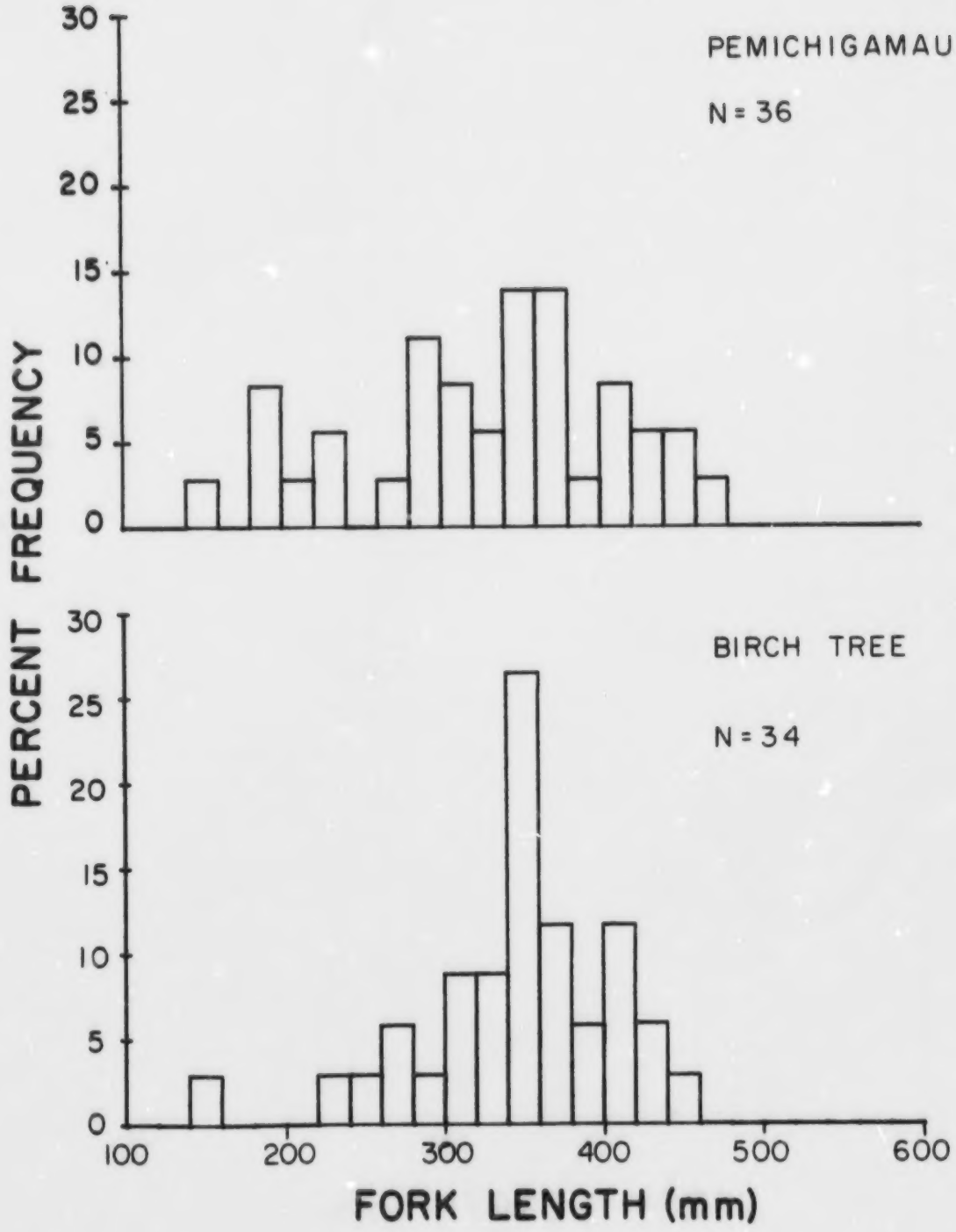

Fig. 21. Fork length frequencies for whitefish from Pemichigamau and Birch Tree lakes, 1985.

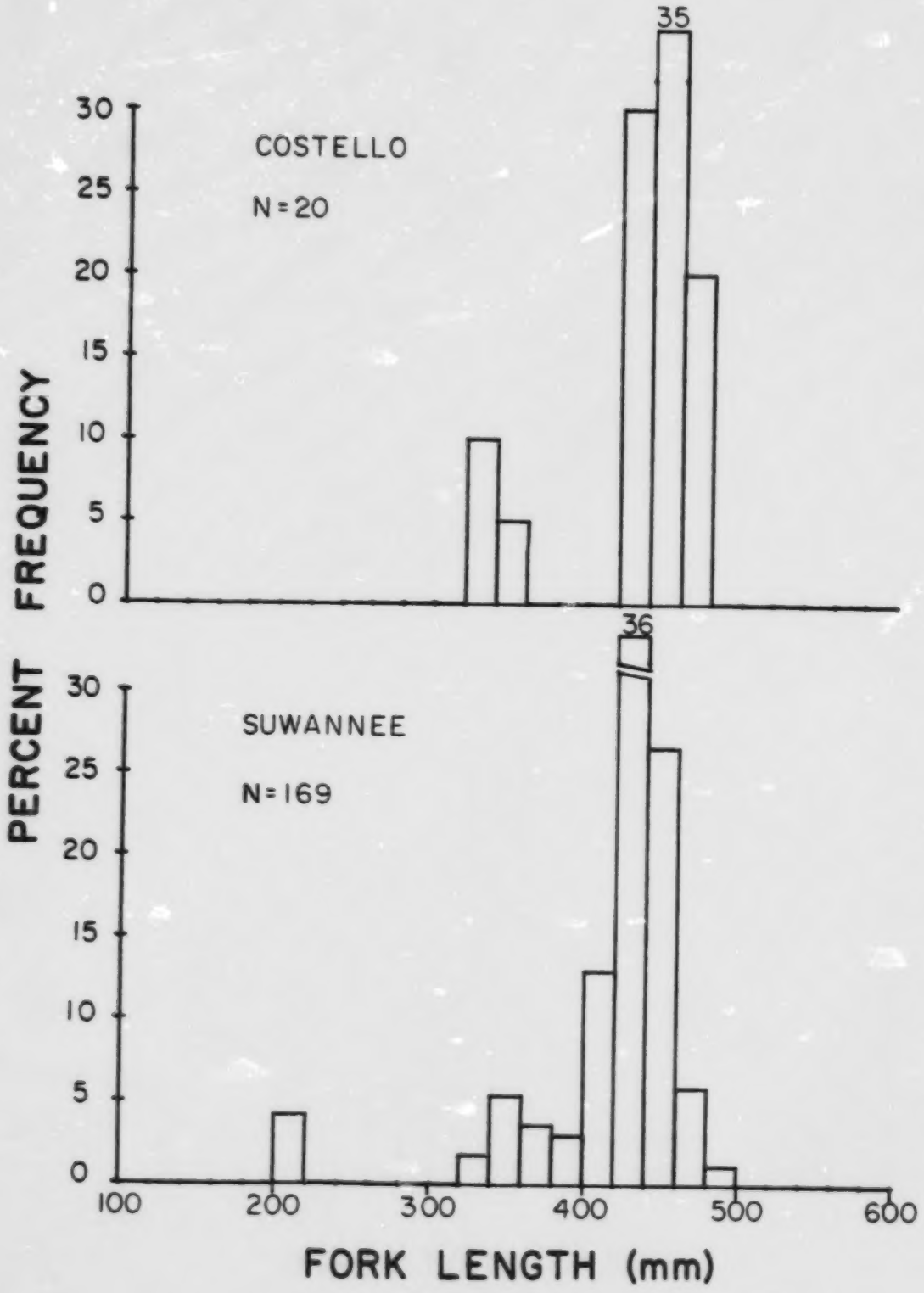

Fig. 22. Fork length frequencies for whitefish from Costello and Suwannee lakes, 1985.

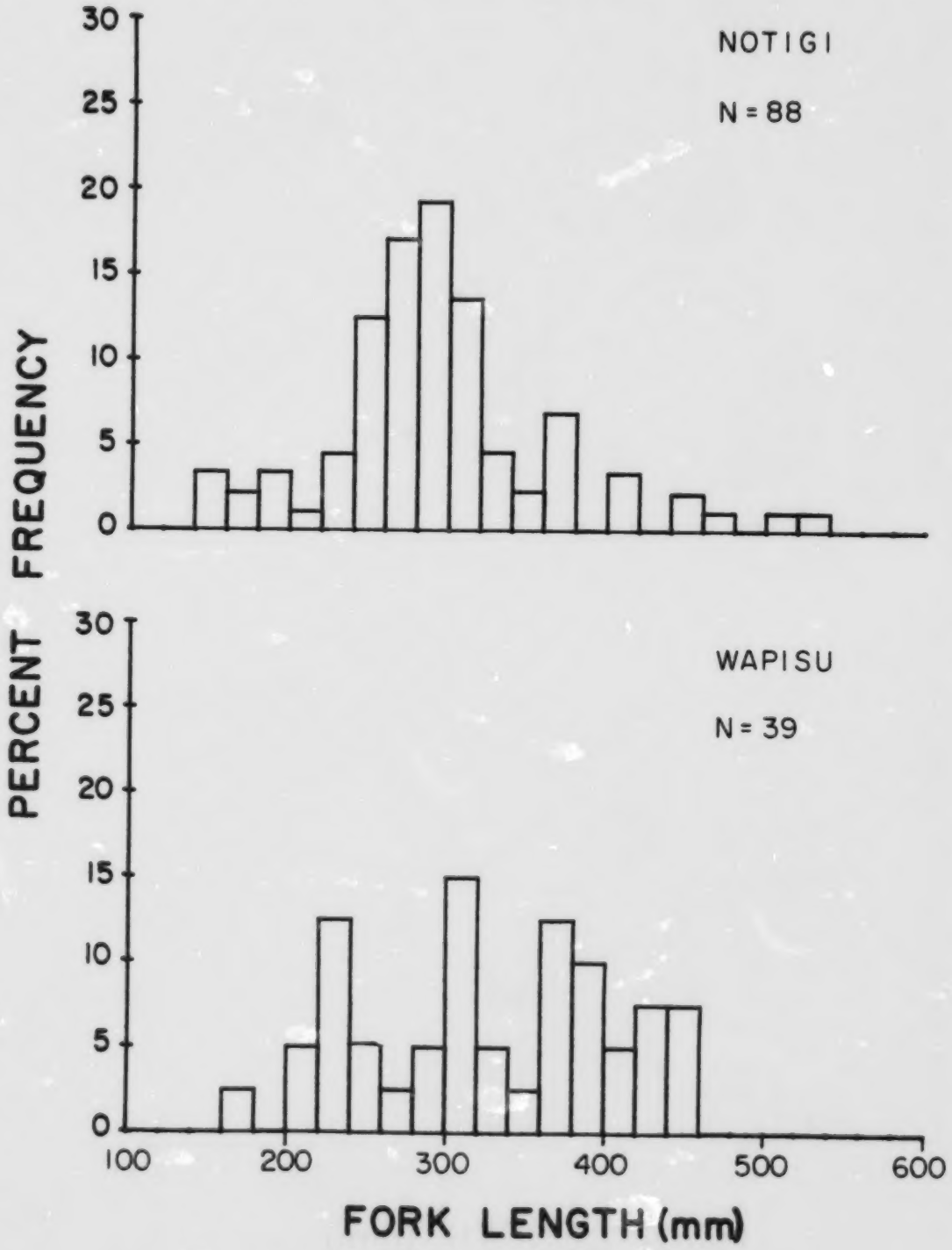

Fig. 23. Fork length frequencies for whitefish from Notigi and Wapisu lakes, 1985.

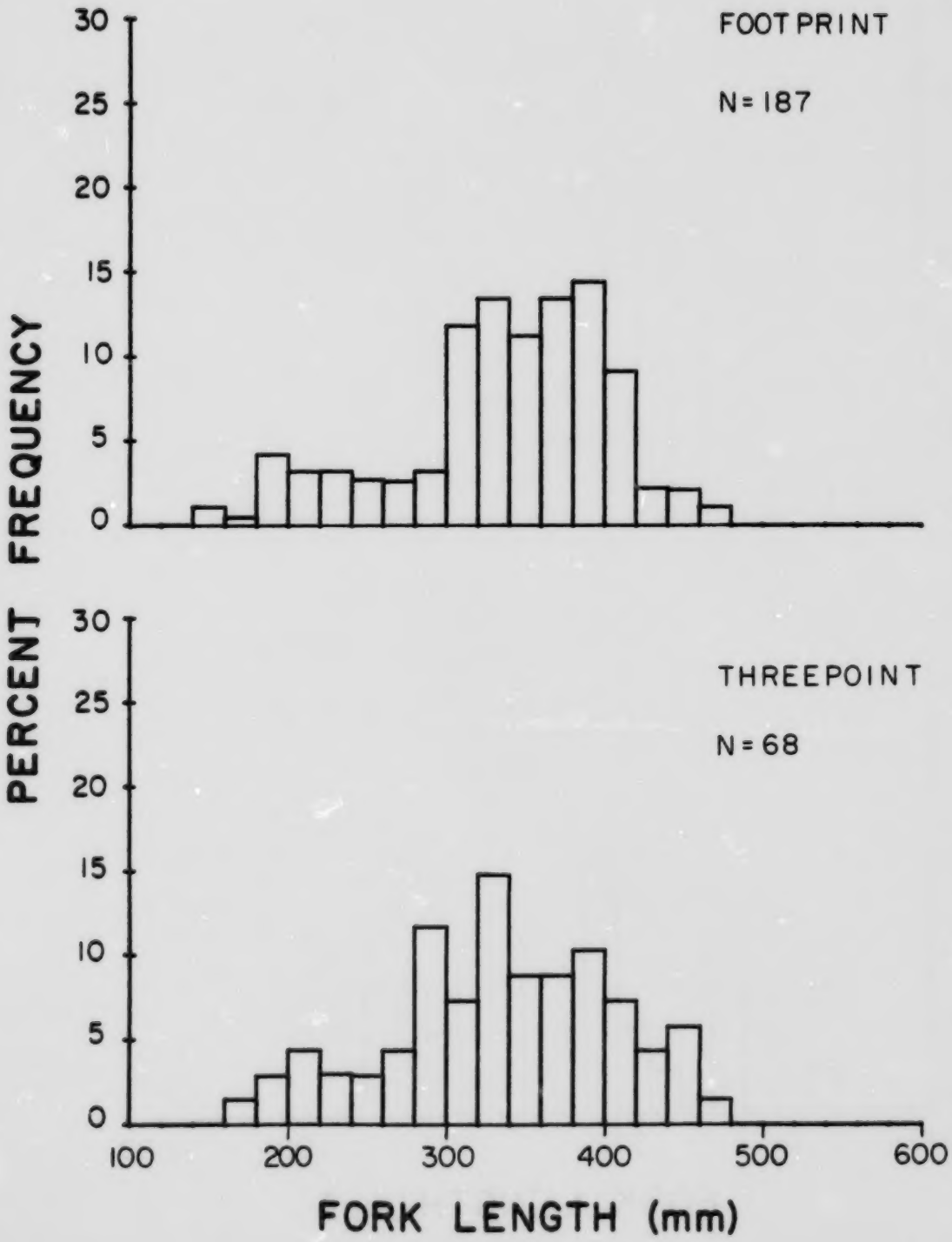

Fig. 24. Fork length frequencies for whitefish from Footprint and Threepoint lakes, 1985.

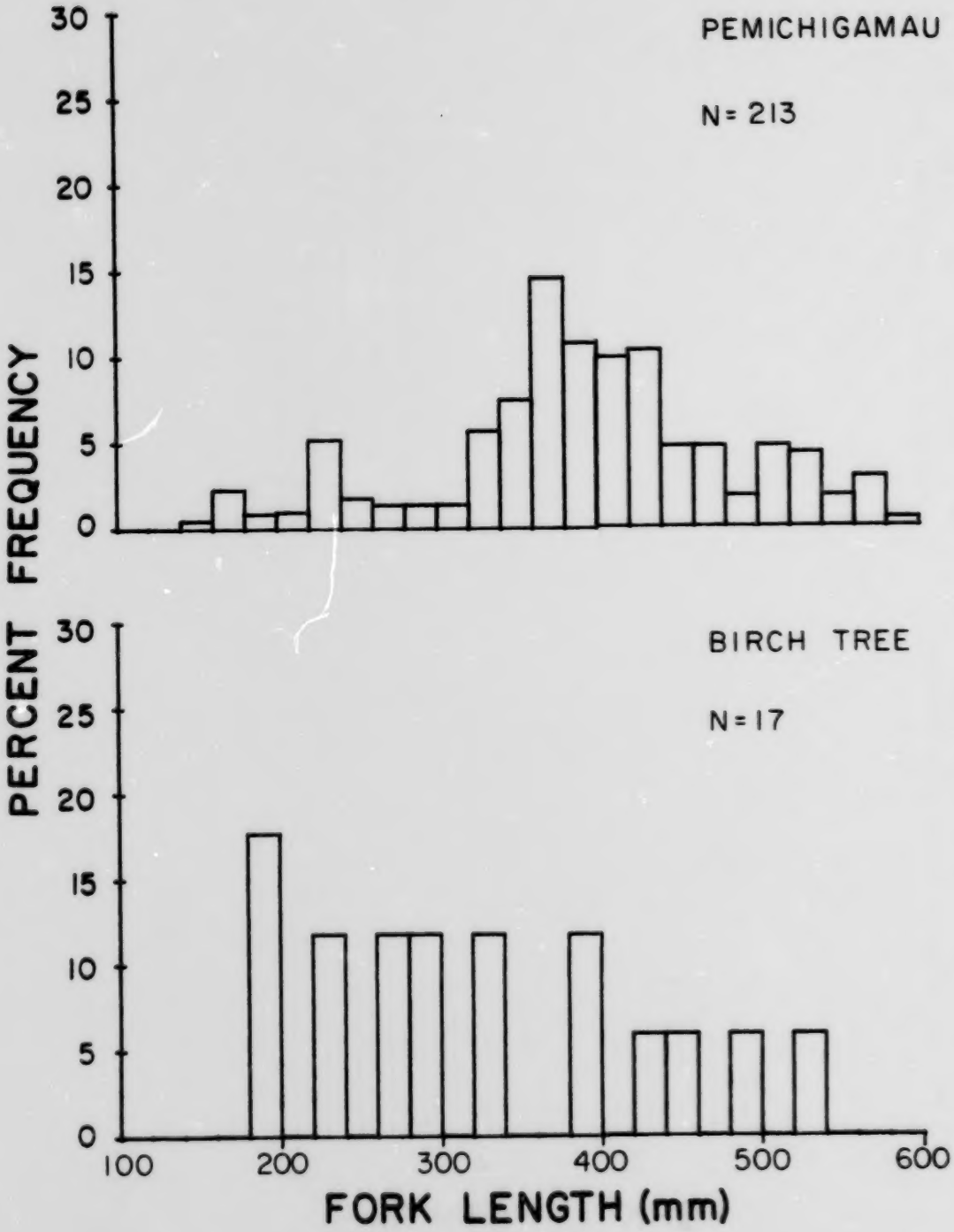

Fig. 25. Fork length frequencies for walleye from Pemichigamau and Birch Tree lakes, 1985.

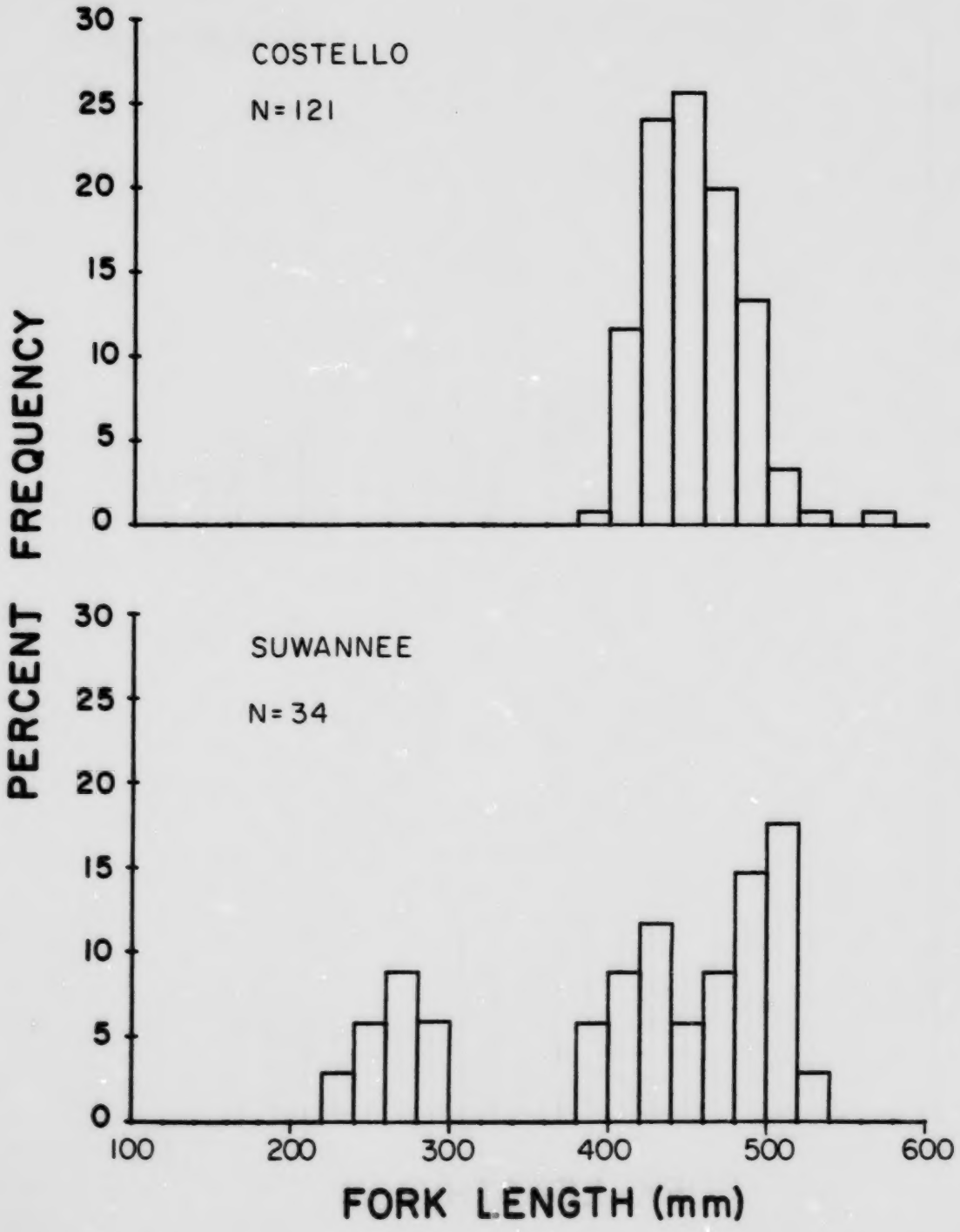

Fig. 26. Fork length frequencies for walleye from Costello and Suwannee lakes, 1985.

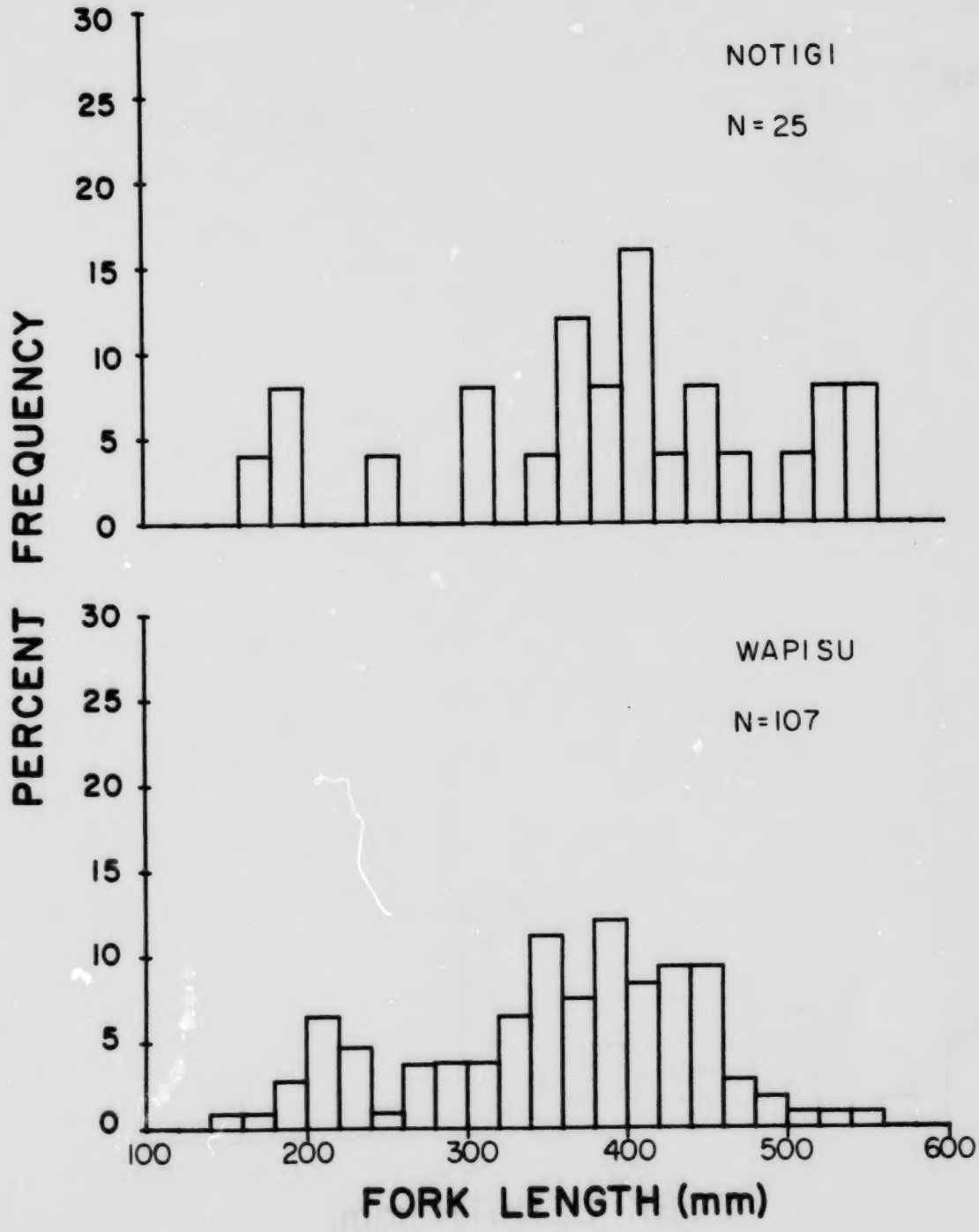

Fig. 27. Fork length frequencies for walleye from Notigi and Wapisu lakes, 1985.

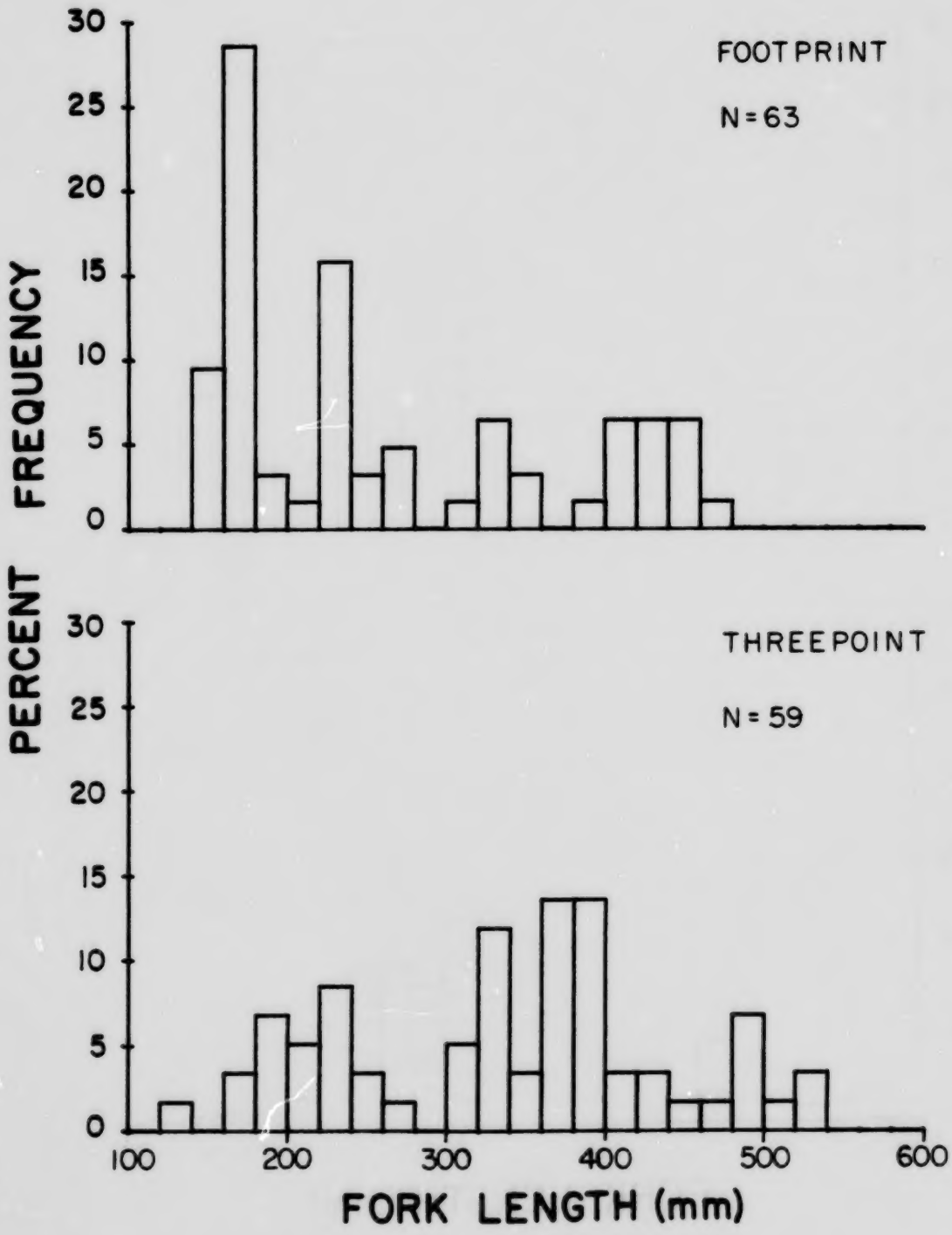

Fig. 28. Fork length frequencies for walleye from Footprint and Threepoint lakes, 1985.

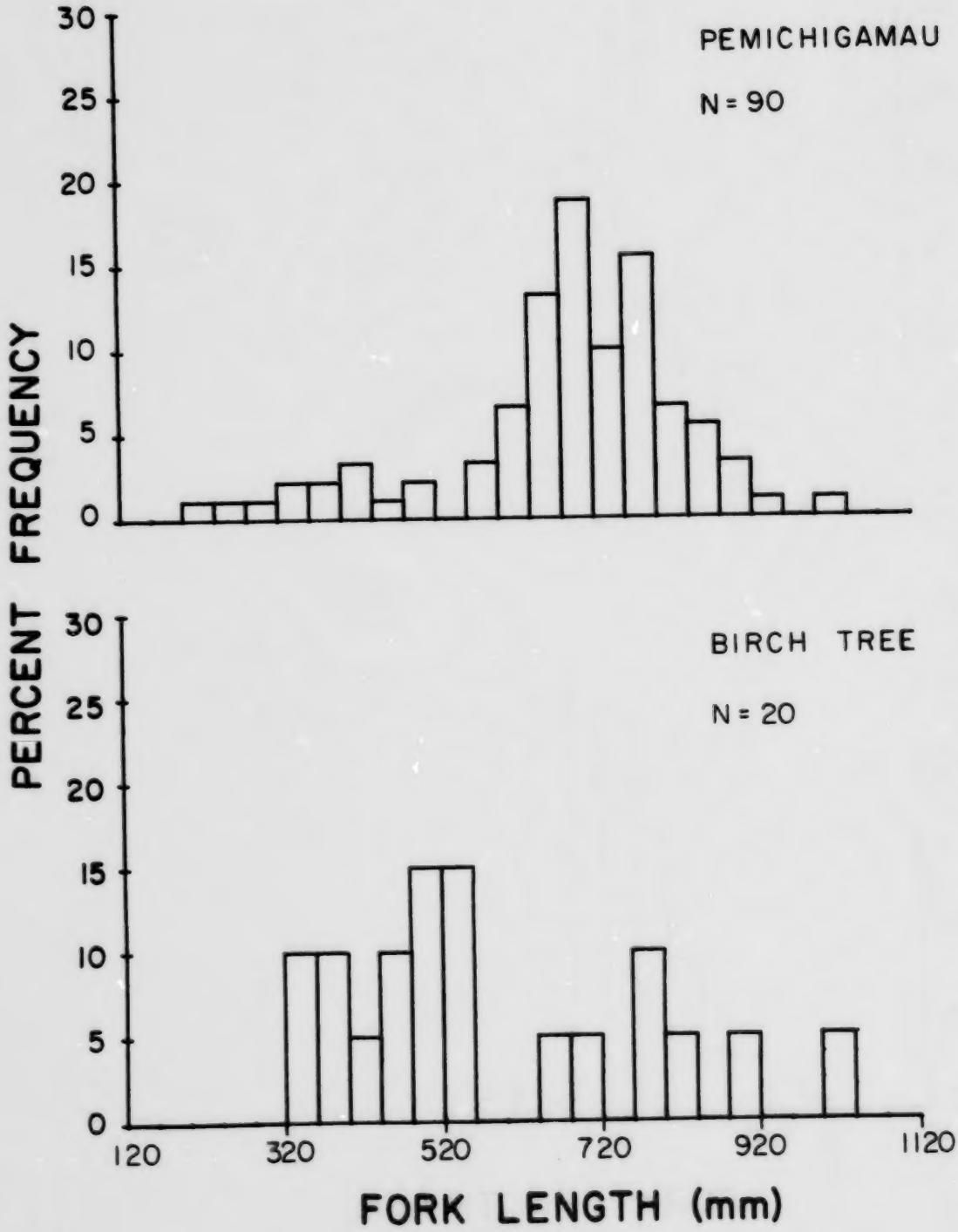

Fig. 29. Fork length frequencies for northern pike from Pemichigamau and Birch Tree lakes, 1985.

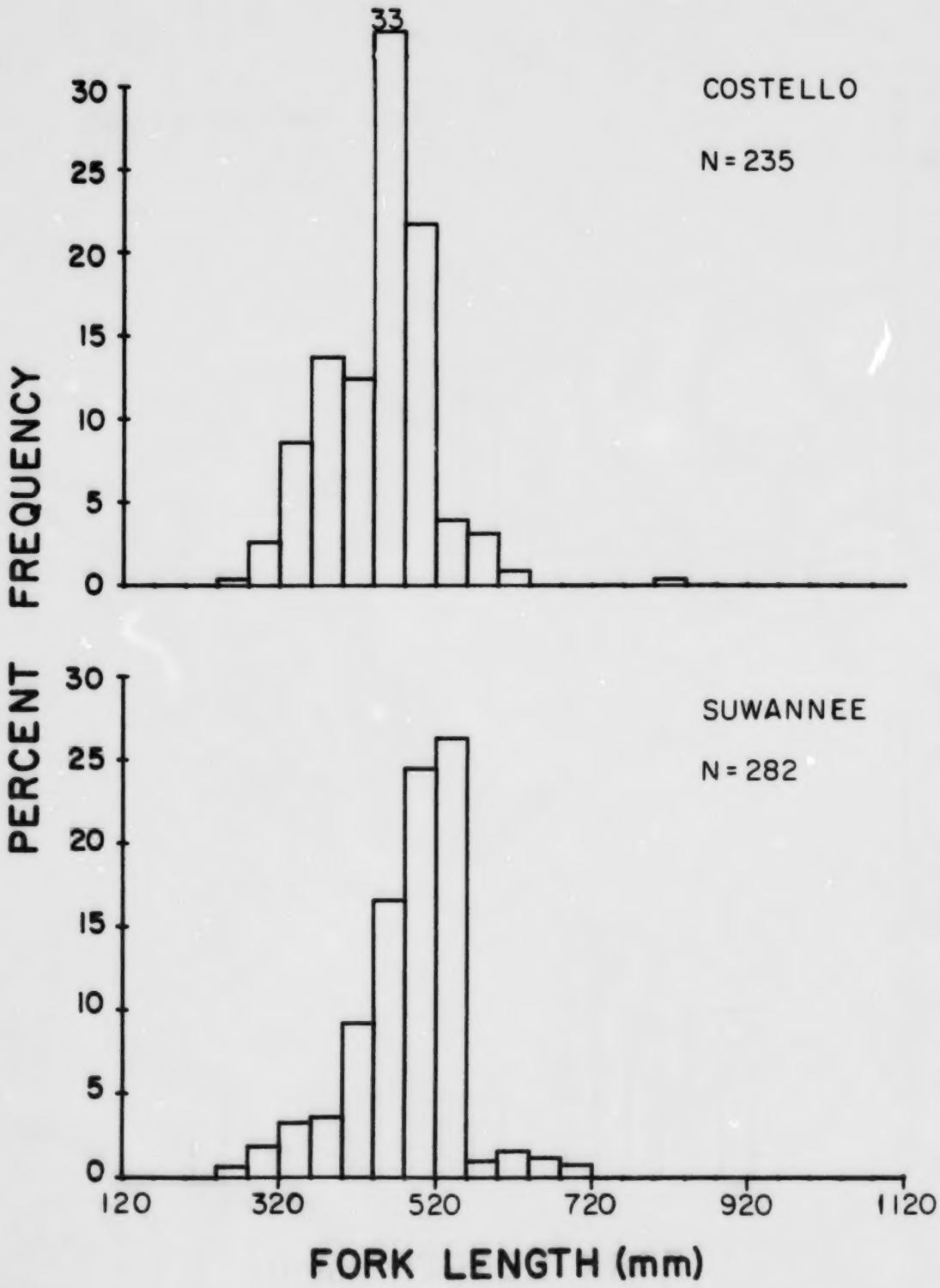

Fig. 30. Fork length frequencies for northern pike from Costello and Suwannee lakes, 1985.

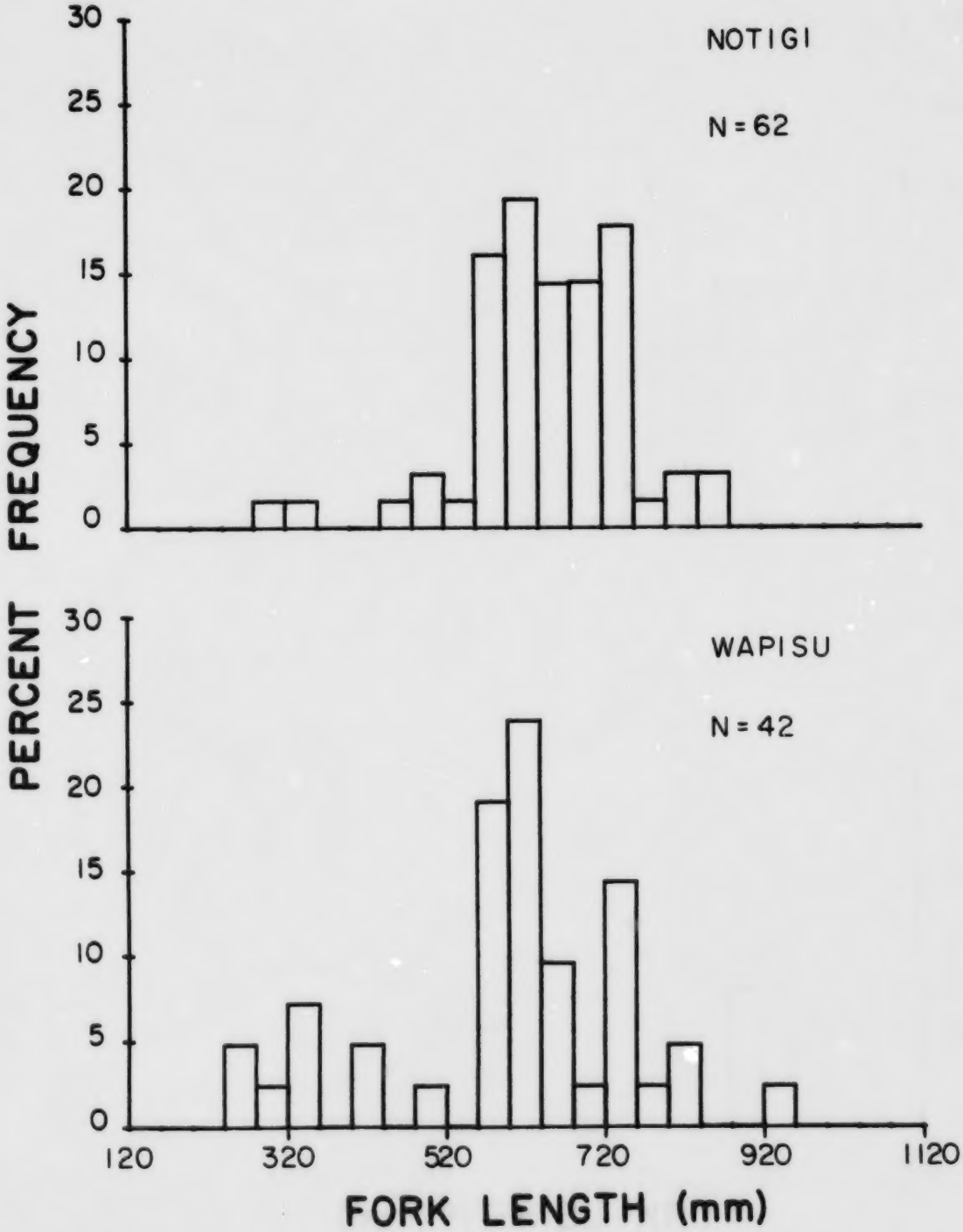

Fig. 31. Fork length frequencies for northern pike from Notigi and Wapisu lakes, 1985.

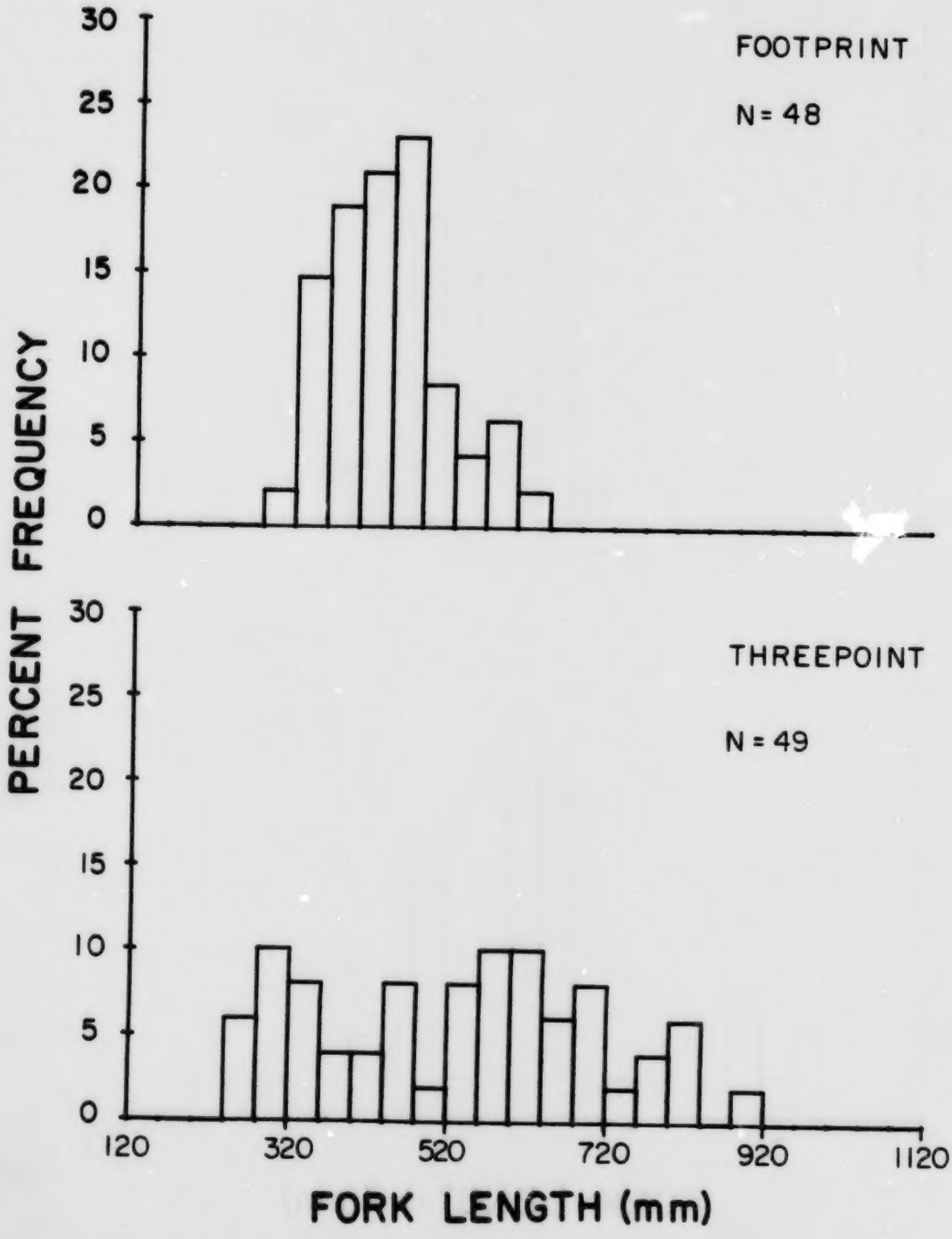

Fig. 32. Fork length frequencies for northern pike from Footprint and Threepoint lakes, 1985.

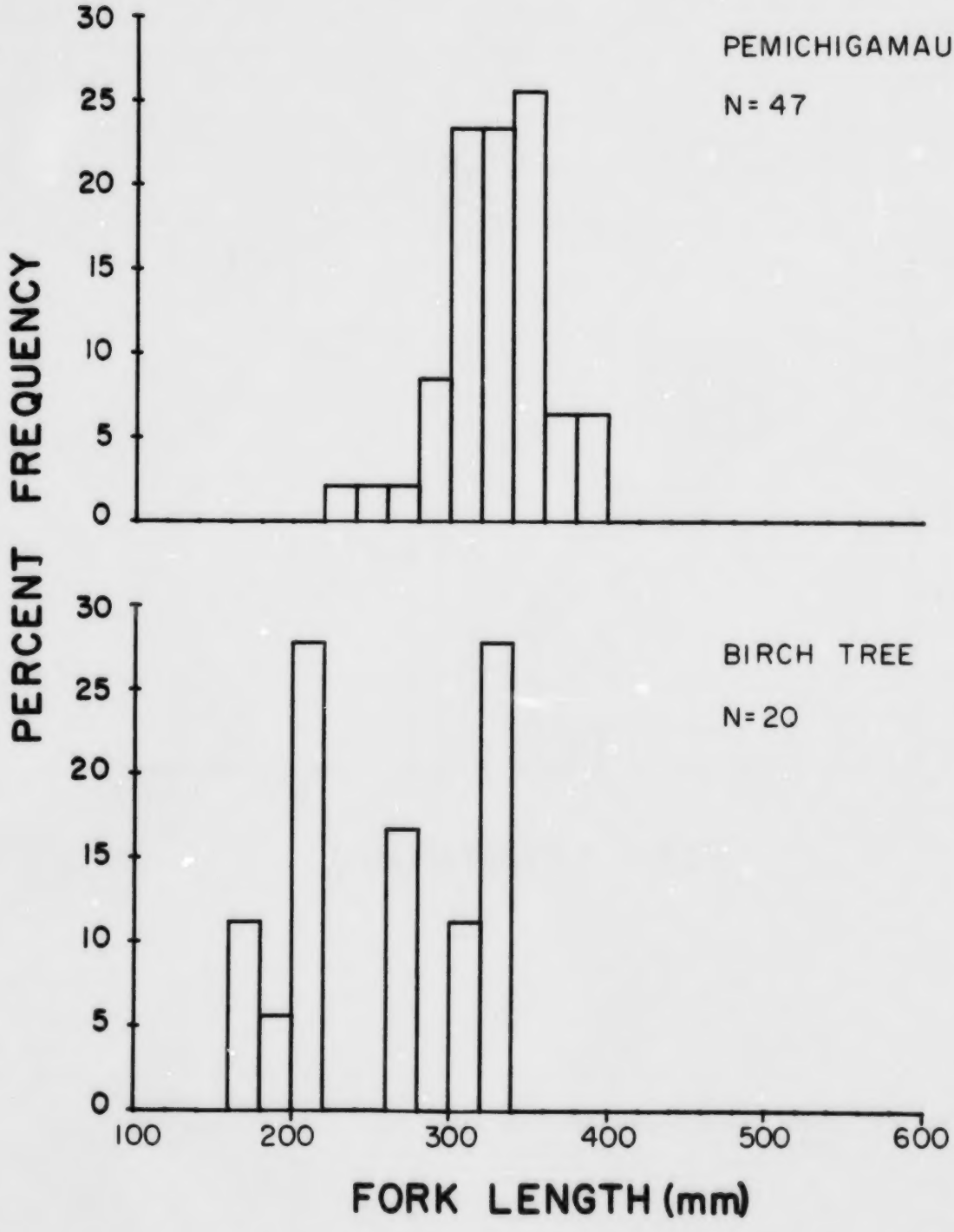

Fig. 33. Fork length frequencies for cisco from Pemichigamau and Birch Tree lakes, 1985.

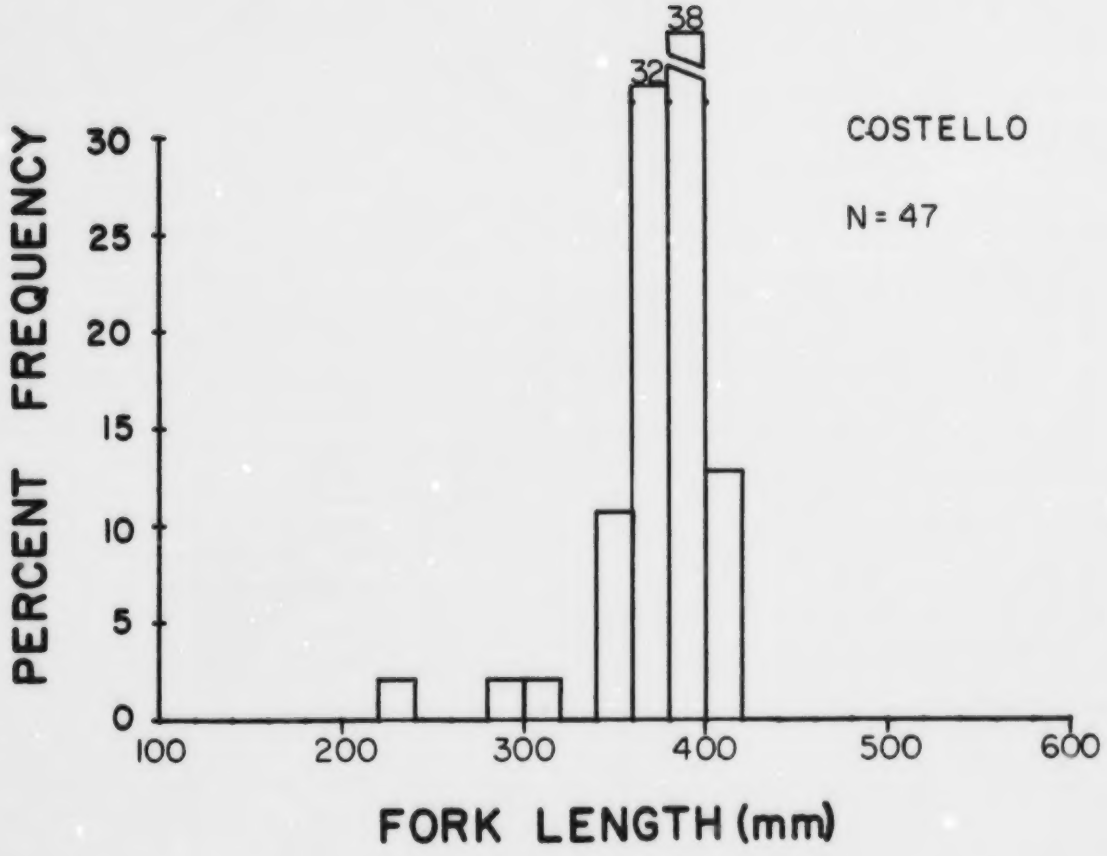

Fig. 34. Fork length frequencies for cisco from Costello Lake, 1985.

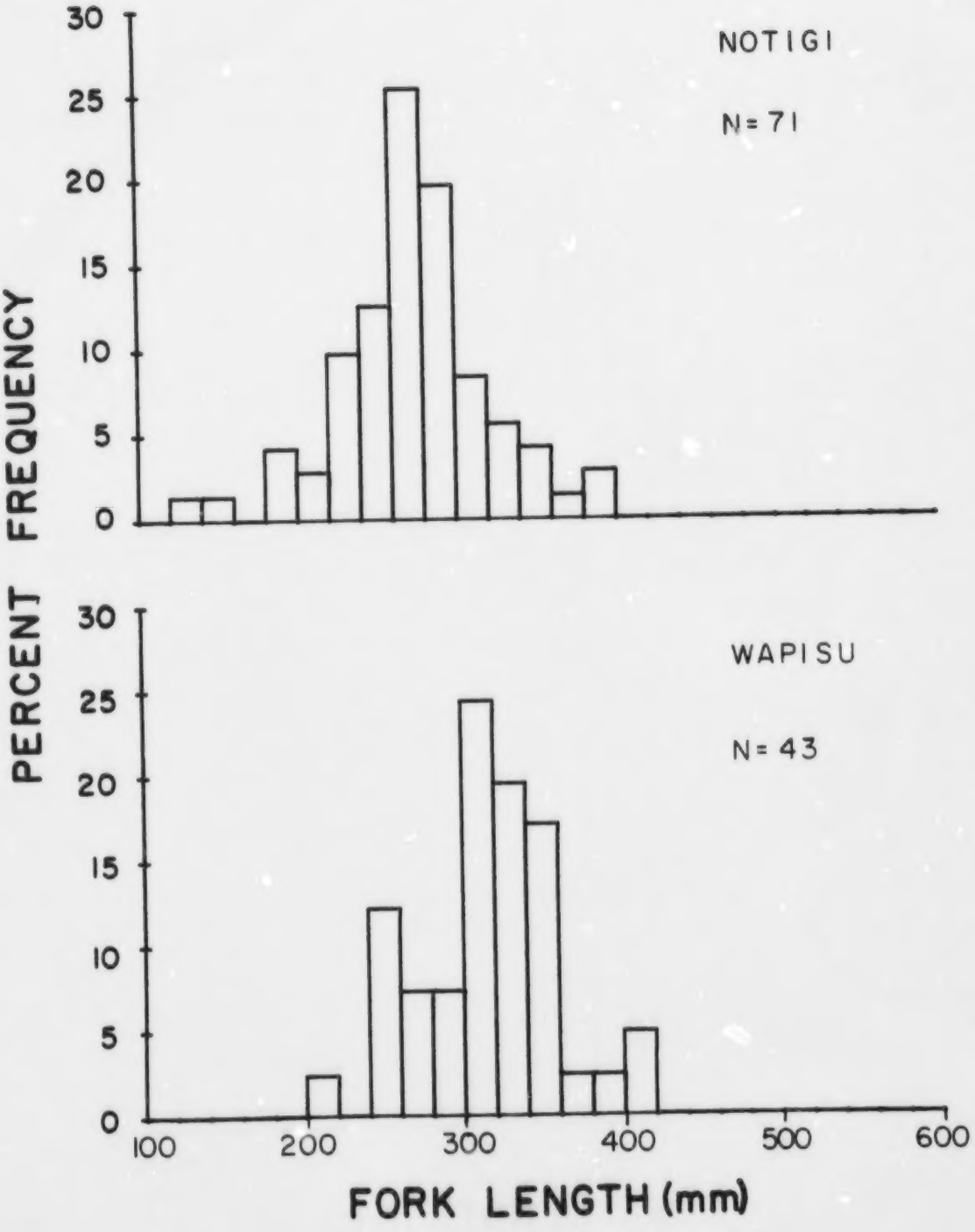

Fig. 35. Fork length frequencies for cisco from Notigi and Wapisu lakes, 1985.

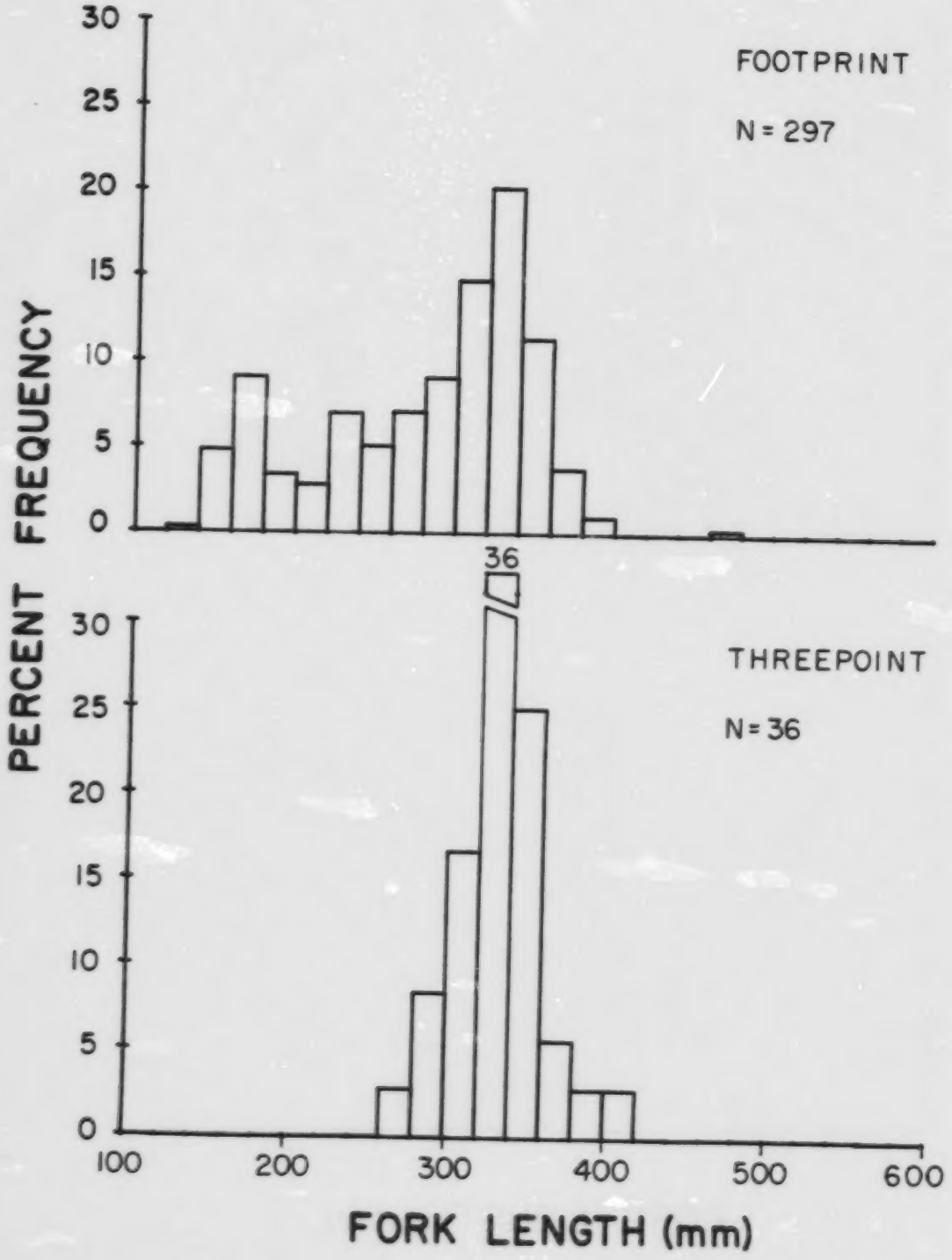

Fig. 36. Fork length frequencies from Footprint and Threepoint lakes, 1985.

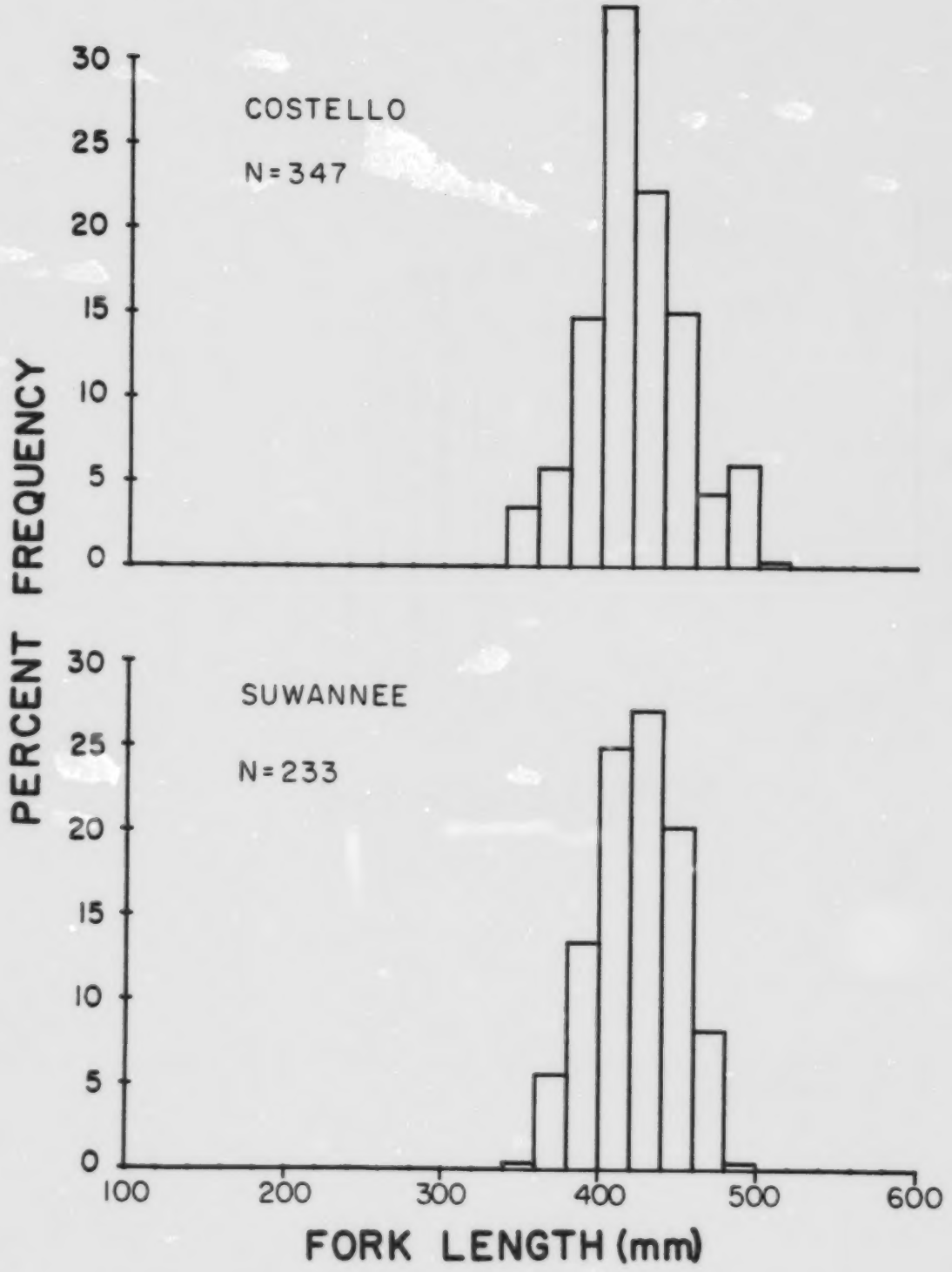

Fig. 37. Fork length frequencies for white sucker from Costello and Suwannee lakes, 1985.

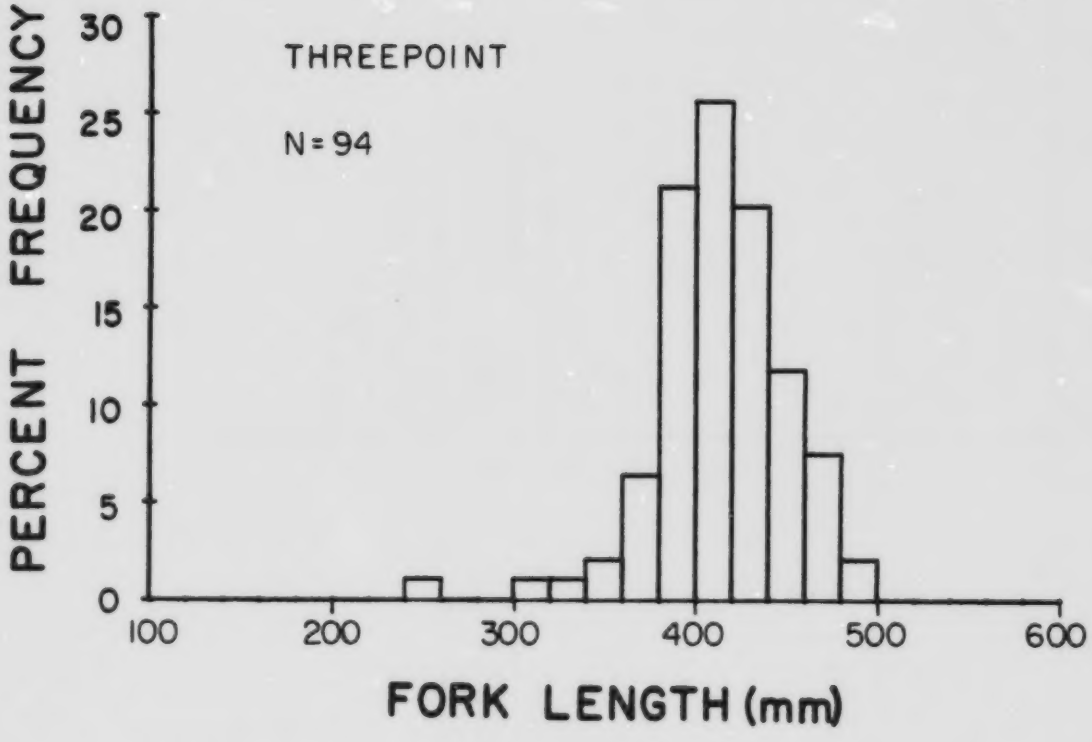

Fig. 38. Fork length frequencies for white sucker from Threepoint Lake, 1985.

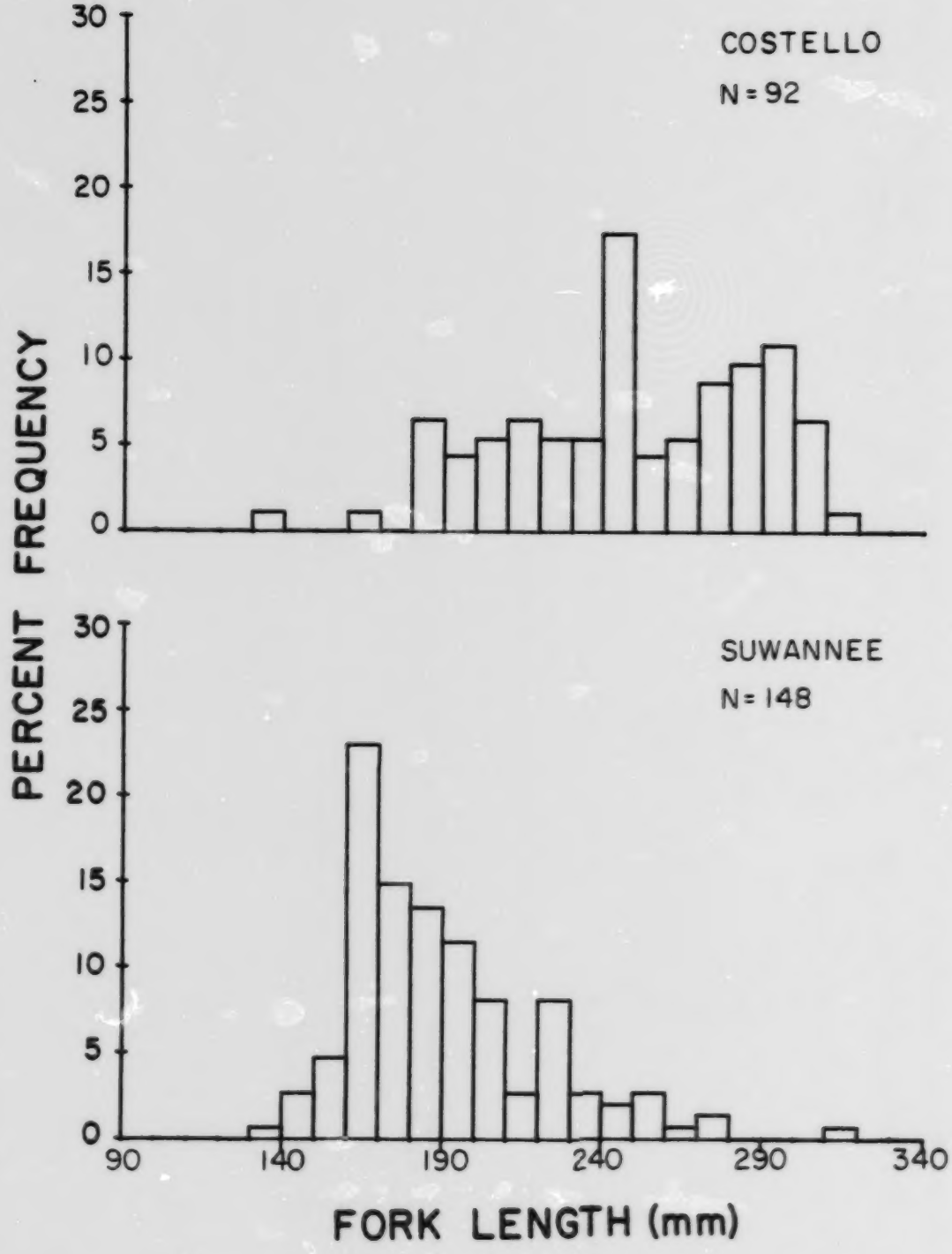

Fig. 39. Fork length frequencies for yellow perch from Costello and Suwannee lakes, 1985.

Table 1. Catch summaries for experimental fishing set in Pemichigamau Lake, June 28 - July 1, 1985.

Set no.	Whitefish	Walleye	Sauger	Northern pike	Cisco	White sucker	Longnose sucker	Yellow perch	Burbot	Total
1	7	4		9			2			22
2	1	8		2	1					12
3	3	11		3	1				1	19
4	7	15		11	29				1	63
5	5	34		11	3					53
6	2	21		20						43
7	7	68		24	12					111
8	4	52	1	10	1	1	2	1		72
Total	36	213	1	90	47	1	4	1	2	395

Table 2. Catch summaries for experimental fishing sets in Costello Lake, May 30 - June 2, 1985.

Set no.	Whitefish	Walleye	Northern pike	Cisco	White sucker	Yellow perch	Total
1	2	22	37	7	48	2	118
2	4	21	58	10	91	7	191
3	2	17	38	8	37	18	120
4	1	34	28	4	35	19	121
5	8	18	39	4	75	41	185
6	3	9	35	14	61	5	127
Total	20	121	235	47	347	92	862

Table 3. Catch summaries for experimental fishing sets in Suwannee Lake from June 2 - June 13, 1985.

Set no.	Whitefish	Walleye	Northern pike	Cisco	White sucker	Longnose sucker	Yellow perch	Burbot	Total
1	30	1	33		23				87
2	7	12	51		40		6		116
3	13	6	60	2	39		6		126
4	43	7	50	2	35	1	2	1	141
5	43	2	56	1	24		28		154
6	33	6	32		72		106		249
Total	169	34	282	5	233	1	148	1	873

Table 4. Catch summaries for experimental fishing sets in Notigi Lake, June 17 - June 27, 1985.

Set no.	Whitefish	Walleye	Northern pike	Cisco	White sucker	Yellow perch	Burbot	Total
1	23	3	2				1	29
2		1	1					2
3	19		2	7				28
4	36	1	9					46
5	3	1		16				20
6	1		12	3				16
7	4	9	30	43		1		87
8	2	10	6	2	1			20
Total	88	25	62	71	1	1	1	249

Table 5. Catch summaries for experimental fishing sets in Wapisu Lake, June 13 - June 17, 1985.

Set no.	Whitefish	Walleye	Sauger	Northern pike	Cisco	White sucker	Longnose sucker	Shorthead Redhorse	Yellow perch	Burbot	Total
1	1	13	1	8	11	6					
2	1	5	1	2	13	7	1	1		2	43
3	4	21	1	10	2	21				2	32
4	5	10	6	3	4	13	1				59
5	2	9	1	8	2	9				1	43
6	6	3	3	1		9				2	33
7	2	7	1	1	1	8	1			3	25
8	9	8	3	2		5				2	23
9	7	21	2	4	8						27
10	2	10	3	3	2	8	1			1	43
									1		30
Total	39	107	22	42	43	86	4	1	1	13	358

Table 6. Catch summaries for experimental fishing sets in Footprint Lake, June 10 - June 16, 1985.

Set no.	Whitefish	Walleye	Sauger	Northern pike	Cisco	White sucker	Yellow perch	Burbot	Goldeye	Total
1	40	13		1	8			11		73
2	31	8		2	13			11		65
3	54	21			16			8		99
4	10	6	4	10	62					92
5	26	4		2	71			18		121
6	16	5	1	26	45	8	3	1		105
7	10	6		27	113	2			1	139
Total	187	63	5	48	328	10	3	49	1	694

Table 7. Catch summaries for experimental fishing sets in Threepoint Lake, June 15 - June 27, 1985.

Set no.	Whitefish	Walleye	Sauger	Northern pike	Cisco	White sucker	Longnose sucker	Yellow perch	Burbot	Total
1	7	6	4	2	1	7				27
2	16	7	1	11	8	21	4	2		70
3	25	21	1	13	27	28	1	1		117
4	7	8	3	7		11		2	1	39
5	6	8	1	9		14				38
6	7	9	3	7		13	1			40
Total	68	59	13	49	36	94	6	5	1	331

Table 8. Catch summaries for experimental fishing sets in Birch Tree Lake, May 29 - June 2, 1985.

Set no.	Whitefish	Walleye	Sauger	Northern pike	Cisco	White sucker	Longnose sucker	Shorthead Redhorse	Yellow perch	Burbot	Total
1		2	1	1		1				2	7
2	5	1		2		1		2			11
3	5	3	1	4	1	2		2	1		19
4	4	3	1	3	9	1		1			22
5	5	1		5					1		12
6	6	1		1	2	1		1			12
7	3	2		1			4			1	11
8	6	4		3	6	1		1			21
Total	34	17	3	20	18	7	4	7	2	3	115

Table 9. Percent frequency of occurrence and catch per unit effort (CUE) in parenthesis for fish caught in the Rat-Burntwood River System lakes, 1985.

Species	CUE(No./Std. gang[1] /day)							
	Pemichigamau 8*	Costello 6*	Suwannee 6*	Notigi 8*	Wapisu 10*	Footprint 7*	Threepoint 6*	Birch Tree 8*
Whitefish	9.1(4.5)	2.3(3.3)	19.4(28.2)	35.3(11.0)	10.9(3.9)	26.9(26.7)	20.5(11.3)	29.6(4.2)
Walleye	53.9(26.6)	14.0(20.2)	3.9(5.7)	10.0 (3.1)	29.9(10.7)	9.1(9.0)	17.8(9.8)	14.8(2.1)
Sauger	0.2(0.1)	-	-	-	6.2(2.2)	0.7 (7.1)	3.9(2.2)	2.6(0.4)
Northern pike	22.8(11.2)	27.3(39.2)	32.3(47.0)	24.9(7.8)	11.7(4.2)	6.9(6.8)	14.8(8.2)	17.4(2.5)
Cisco	11.9(5.9)	5.4(7.8)	0.6(0.8)	28.5(8.9)	12.0(4.3)	47.3(46.8)	10.9(6.0)	15.6(2.2)
White sucker	0.2(0.1)	40.3(57.8)	26.7(38.8)	0.4(0.1)	24.0(8.6)	1.4(1.4)	28.4(15.7)	6.1(0.9)
Longnose sucker	1.0(0.5)	-	0.1(0.2)	-	1.1(0.4)	-	1.8(1.0)	3.4(0.5)
Shorthead redhorse sucker	-	-	-	-	0.3(0.1)	-	-	6.1(0.9)
Yellow perch	0.2(0.1)	10.7(15.3)	17.0(24.7)	0.4(0.1)	0.3(0.1)	0.4(0.4)	1.5(0.8)	1.7(0.2)
Burbot	0.5 (0.2)	-	0.1(0.2)	0.4(0.1)	3.6(1.3)	7.1(7.0)	0.3(0.2)	2.6(0.4)
Goldeye	-	-	-	-	-	0.1(0.1)	-	-
Total	(49.4)	(143.7)	(145.5)	(31.1)	(35.8)	(99.1)	(55.2)	(14.4)

[1] Std. gang = a total length of 125 yards of six different mesh sizes - see Methods.

* These numbers represent the total number of sets made in each lake.

Table 10. Sum lengths (m) and sum weights (kg) of fish caught in 8 experimental fishing sets in Pemichigamau Lake, 1985.

Species	Parameter	Mesh sizes (inches) 1.5	2.0	3.0	3.75	4.25	5.0	Total
Whitefish	N	6	3	11	5	7	4	36
	Σ lengths	1.16	1.03	3.46	1.83	2.69	1.61	11.78
	Σ weights	0.63	2.02	5.22	4.00	6.05	4.37	22.29
Walleye	N	21	37	59	43	44	9	213
	Σ lengths	5.89	12.28	22.92	17.10	20.68	4.26	83.12
	Σ weights	7.34	18.57	41.08	31.41	51.51	12.31	162.22
Sauger	N	1						1
	Σ lengths	0.31						0.31
	Σ weights	0.28						0.28
Northern pike	N	7	16	17	20	21	9	90
	Σ lengths	4.03	8.79	11.99	14.63	14.84	7.18	61.46
	Σ weights	13.34	24.57	50.06	58.74	63.93	36.81	247.45
Cisco	N	4	4	17	9	9	4	47
	Σ lengths	1.28	1.26	5.36	3.01	3.03	1.35	15.29
	Σ weights	1.88	2.11	8.01	4.97	5.14	2.57	24.68
White sucker	N				1			1
	Σ lengths				0.38			0.38
	Σ weights				0.80			0.80
Longnose sucker	N		2	1	1			4
	Σ lengths		0.57	0.30	0.39			1.26
	Σ weights		0.75	0.36	0.99			2.10
Burbot	N			1	1			2
	Σ lengths			0.44	0.50			0.94
	Σ weights			0.54	1.00			1.54
Yellow perch	N		1					1
	Σ lengths	0.14						0.14
	Σ weights	0.04						0.04

Table 11. Sum lengths (m) and sum weights (kg) of fish caught in 6 experimental fishing sets in Costello Lake, 1985.

Species	Parameter	Mesh sizes (inches) 1.5	2.0	3.0	3.75	4.25	5.0	Total
Whitefish	N	1	2	3	2	4	8	20
	Σ lengths	0.47	0.90	1.21	0.69	1.77	3.58	8.62
	Σ weights	1.84	3.36	4.03	1.47	6.41	13.17	30.28
Walleye	N	5	10	19	29	56	2	121
	Σ lengths	2.18	4.52	8.67	12.76	25.46	1.05	54.64
	Σ weights	4.27	9.76	19.03	26.64	55.87	2.73	118.30
Northern pike	N	28	81	115	7	2	2	235
	Σ lengths	11.14	33.75	54.42	3.64	1.10	1.13	105.18
	Σ weights	12.63	42.92	80.37	6.77	2.23	2.25	147.17
Cisco	N	3	2	5	7	10	20	47
	Σ lengths	1.10	0.66	1.68	2.59	3.75	7.80	17.58
	Σ weights	2.59	1.50	3.82	6.74	10.76	22.42	47.83
White sucker	N	1	2	43	141	151	9	347
	Σ lengths	0.40	0.73	16.96	58.11	63.80	4.15	144.15
	Σ weights	0.80	1.39	37.79	141.35	166.39	13.56	361.28
Yellow perch	N	19	22	28	23			92
	Σ lengths	3.81	4.98	7.32	6.71			22.82
	Σ weights	2.21	4.04	7.96	8.98			23.19

Table 12. Sum lengths (m) and sum weights (kg) of fish caught in 6 experimental fishing sets in Suwannee Lake, 1985.

Species	Parameter	Mesh sizes (inches) 1.5	2.0	3.0	3.75	4.25	5.0	Total
Whitefish	N	22	18	9	27	36	57	169
	Σ lengths	8.02	7.41	3.67	11.30	15.34	24.60	70.34
	Σ weights	22.86	25.25	11.13	36.48	51.82	84.53	232.07
Walleye	N	4	12	2	6	8	2	34
	Σ lengths	1.10	4.58	0.94	2.77	3.79	0.97	14.15
	Σ weights	0.88	8.69	2.48	6.74	10.03	2.78	31.60
Northern pike	N	47	71	108	43	10	3	282
	Σ lengths	21.68	32.93	54.48	22.84	5.56	1.59	139.08
	Σ weights	31.96	50.47	91.27	41.23	11.69	2.73	229.35
Cisco	N	1		2	1		1	5
	Σ lengths	0.28		0.78	0.40		0.42	1.88
	Σ weights	0.32		1.81	0.86		1.48	4.47
White sucker	N	4	5	24	75	110	15	233
	Σ lengths	1.67	2.16	9.69	31.11	47.32	6.74	98.69
	Σ weights	4.37	5.44	23.13	78.11	128.07	20.57	259.69
Longnose sucker	N		1					1
	Σ lengths		0.22					0.22
	Σ weights		0.17					0.17
Burbot	N			1				1
	Σ lengths			0.48				0.48
	Σ weights			1.06				1.06
Yellow perch	N	67	71	10				148
	Σ lengths	11.86	13.56	2.58				28.00
	Σ weights	5.97	7.77	2.80				16.54

Table 13. Sum lengths (m) and sum weights (kg) of fish caught in 8 experimental fishing sets in Notigi Lake, 1985.

Species	Parameter	Mesh sizes (inches) 1.5	2.0	3.0	3.75	4.25	5.0	Total
Whitefish	N	10	10	29	32	5	2	88
	Σ lengths	2.06	2.53	7.98	10.16	2.06	0.91	25.70
	Σ weights	1.50	3.92	8.90	15.88	5.50	3.54	39.24
Walleye	N	4	4	5	7	1	4	25
	Σ lengths	1.08	1.36	2.26	2.90	0.38	1.76	9.74
	Σ weights	2.02	1.88	5.64	6.60	0.64	4.42	21.20
Northern pike	N	3	13	13	17	12	4	62
	Σ lengths	1.90	7.36	9.10	11.35	8.01	2.68	40.40
	Σ weights	5.46	19.56	33.62	38.86	25.40	9.28	132.18
Cisco	N	6	20	27	13	4	1	71
	Σ lengths	1.46	4.69	7.77	3.79	1.32	0.35	19.38
	Σ weights	1.48	3.56	9.98	4.92	2.24	0.64	22.82
White sucker	N						1	1
	Σ lengths						0.53	0.53
	Σ weights						1.90	1.90
Burbot	N			1				1
	Σ lengths			0.47				0.47
	Σ weights			0.64				0.64
Yellow perch	N		1					1
	Σ lengths		0.20					0.20
	Σ weights		0.16					0.16

Table 14. Sum lengths (m) and sum weights (kg) of fish caught in 10 experimental fishing sets in Wapisu Lake, 1985.

Species	Parameter	Meizes (inches) 1.5	2.0	3.0	3.75	4.25	5.0	Total
Whitefish	N	1	10	5	9	7	7	39
	Σ lengths	0.38	2.29	1.42	3.05	2.68	2.97	12.99
	Σ weights	0.70	1.76	1.48	4.94	5.72	7.12	21.72
Walleye	N	12	35	21	26	10	3	107
	Σ lengths	3.22	10.74	7.68	10.84	4.22	1.33	38.03
	Σ weights	3.56	13.45	11.22	20.92	8.58	2.90	60.63
Sauger	N	2	16	3	1			22
	Σ lengths	0.38	4.38	0.97	0.33			6.06
	Σ weights	0.14	3.24	1.00	0.36			4.74
Northern pike	N	13	11	4	8	5	1	42
	Σ lengths	7.44	5.46	2.49	5.26	3.63	0.82	25.10
	Σ weights	19.48	13.08	7.04	17.94	15.11	4.48	77.13
Cisco	N	3	11	13	10	4	2	43
	Σ lengths*	1.02	2.72(10)	3.89	3.07(9)	1.45	0.70	12.85(41)
	Σ weights	1.90	2.96	5.04	5.75	2.60	1.28	19.53
White sucker	N	3	3	11	31	31	7	86
	Σ lengths	0.39(1)	0.73(2)	3.37(9)	10.36(26)	9.70(23)	2.91	27.46(68)
	Σ weights	1.70(2)	1.60	8.60	29.68	35.83	8.08	85.49(85)
Longnose sucker	N				1	2	1	4
	Σ lengths*				0.40	0.80	0.44	1.64
	Σ weights*				0.98	2.04	1.50	4.52
Shorthead redhorse sucker	N	1						1
	Σ lengths	0.39						0.39
	Σ weights	0.90						0.90
Burbot	N		1	3	3	6		13
	Σ lengths		0.29	1.25	1.62	3.12		6.28
	Σ weights		0.20	1.76	4.08	6.82		12.86
Yellow perch	N	1						1
	Σ lengths	0.16						0.16
	Σ weights	0.08						0.08

* Based on number of fish (in parenthesis) on which individual lengths and weights were recorded.

Table 15. Sum lengths (m) and sum weights (kg) of fish caught in 7 experimental fishing sets in Footprint Lake, 1985.

Species	Parameter	Mesh sizes (inches) 1.5	2.0	3.0	3.75	4.25	5.0	Total
Whitefish	N						7	187
	Σ lengths							62.98
	Σ weights							127.66
Walleye	N	30	19	4	6	4		63
	Σ lengths	5.74	4.95	1.56	2.58	1.69		16.52
	Σ weights	3.23	3.96	2.47	4.53	3.22		17.41
Sauger	N		3	2				5
	Σ lengths		1.06	0.71				1.77
	Σ weights		1.35	0.80				2.15
Northern pike	N	8	22	11	5	2		48
	Σ lengths	3.31	8.68	5.05	2.63	1.03		20.68
	Σ weights	4.23	8.64	6.91	4.71	2.29		26.78
Cisco	N	78	76	76	52	40	6	328
	Σ lengths*	9.08(47)	18.53	23.09	17.08	13.50	2.02	83.31(297)
	Σ weights	11.23	19.22	33.74	29.65	26.17	4.06	124.07(328)
White sucker	N	1		3	4	2		10
	Σ lengths	0.38		1.15	1.53	0.71		3.77
	Σ weights	0.77		2.51	3.67	1.92		8.87
Burbot	N		5	10	18	5	11	49
	Σ lengths		1.63	3.76	8.45	2.75	5.09	21.69
	Σ weights		1.66	4.99	17.26	6.33	16.30	46.54
Yellow perch	N	1	1	1				3
	Σ lengths	0.15	0.22	0.23				0.60
	Σ weights	0.05	0.18	0.21				0.44
Goldeye	N		1					1
	Σ lengths		0.35					0.35
	Σ weights		0.53					0.53

* Based on number of fish (in parenthesis) on which individual lengths and weights were recorded.

Table 16. Sum lengths (m) and sum weights (kg) of fish caught in 6 experimental fishing sets in Threepoint Lake, 1985.

Species	Parameter	Mesh sizes (inches) 1.5	2.0	3.0	3.75	4.25	5.0	Total
Whitefish	N	2	8	20	14	20	4	68
	Σ lengths	0.37	1.97	6.07	5.01	7.63	1.71	22.76
	Σ weights	0.13	2.26	8.10	9.44	17.10	4.76	41.79
Walleye	N	12	11	15	16	4	1	59
	Σ lengths	2.62	3.10	5.29	6.30	2.02	0.54	19.87
	Σ weights	1.51	3.11	7.06	11.79	5.70	1.43	30.60
Sauger	N		7	5			1	13
	Σ lengths		2.07	1.74			0.30	4.11
	Σ weights		1.66	1.94			0.27	3.87
Northern pike	N	8	10	15	10	3	3	49
	Σ lengths	2.98	3.57	8.84	6.42	1.95	2.30	26.06
	Σ weights	4.13	3.67	27.42	21.50	6.38	11.46	74.56
Cisco	N	1	4	14	12	4	1	36
	Σ lengths	0.34	1.26	4.46	4.10	1.35	0.40	11.91
	Σ weights	0.57	1.89	6.39	7.51	2.45	0.99	19.80
White sucker	N	1	2	13	45	27	6	94
	Σ lengths	0.39	0.65	4.99	18.32	11.54	2.80	38.69
	Σ weights	0.82	1.07	10.67	43.97	30.34	9.04	95.91
Longnose sucker	N		2		1	1	2	6
	Σ lengths		0.69		0.45	0.47	0.88	2.49
	Σ weights		0.93		1.46	1.40	2.59	6.38
Burbot	N		1					1
	Σ lengths		0.28					0.28
	Σ weights		0.16					0.16
Yellow perch	N		3	2				5
	Σ lengths		0.56	0.48				1.04
	Σ weights		0.31	0.43				0.74

Table 17. Sum lengths (m) and sum weights (kg) of fish caught in 8 experimental fishing sets in Birch Tree Lake, 1985.

Species	Parameter	Mesh sizes (inches) 1.5	2.0	3.0	3.75	4.25	5.0	Total
Whitefish	N	2	1	11	6	5	9	34
	Σ lengths	0.50	0.22	3.47	2.04	1.80	3.63	11.66
	Σ weights	0.62	0.16	5.26	3.86	3.80	10.32	24.02
Walleye	N	3	6	3	3	1	1	17
	Σ lengths	0.67	1.46	1.10	1.26	0.42	0.53	5.44
	Σ weights	0.36	1.02	1.60	2.68	0.84	1.58	8.08
Sauger	N		1	2				3
	Σ lengths		0.30	0.64				0.94
	Σ weights		0.32	0.70				1.02
Northern pike	N		4	5	6	2	3	20
	Σ lengths		1.55	2.29	3.89	1.21	2.42	11.36
	Σ weights		1.74	3.76	14.78	5.52	14.08	39.88
Cisco	N	3	6	3	6			18
	Σ lengths	0.55	1.29	0.92	1.88			4.64
	Σ weights	0.20	0.72	1.18	2.68			4.78
White sucker	N	1		4	1	1		7
	Σ lengths	0.32		1.37	0.49	0.45		2.63
	Σ weights	0.42		2.36	2.04	1.42		6.24
Longnose sucker	N				3	1		4
	Σ lengths				1.28	0.36		1.64
	Σ weights				3.14	0.68		3.82
Shorthead redhorse sucker	N				3	1	3	7
	Σ lengths				1.18	0.43	1.22	2.83
	Σ weights				3.06	1.14	3.34	7.54
Burbot	N	1	1		1			3
	Σ lengths	0.29	0.27		0.59			1.15
	Σ weights	0.10	0.14		1.72			1.96
Yellow perch	N			1	1			2
	Σ lengths			0.25	0.28			0.53
	Σ weights			0.22	0.38			0.60

Table 18. Mesh size effects on whitefish catches in Pemichigamau Lake, 1985.

	Mesh size (inches)						
	1.5	2.0	3.0	3.75	4.25	5.0	Total
Number caught	6	3	11	5	7	4	36
CUE*(No/100 yds/day)	3.00	1.50	5.50	2.50	3.50	2.00	3.00
CUE*(Kg/100yds/day)	0.31	1.01	2.61	2.00	3.02	2.18	1.86
Mean Length (mm)± s.d.	193 ± 28.19	345 ± 115.76	314 ± 43.58	367 ± 57.67	384 ± 41.81	402 ± 32.07	327 ± 82.88
Mean Weight (g) ± s.d.	105 ± 46.37	673 ± 523.20	474 ± 232.44	800 ± 458.69	864 ± 315.27	1092 ± 253.29	619 ± 415.22
Number Mature	0	2	7	5	6	3	23
Number Immature	6	1	4	0	1	1	13
% Mature	0.0	66.7	63.6	100.0	85.7	75.0	63.9
Mean Age (years)	3.83	7.00	8.00	7.00	7.86	7.00	6.94
Age (years)	Frequency (%)						
2	16.7						2.8
3	50.0			20.00			11.1
4	16.7	33.3					5.6
5					14.3		2.8
6			18.2			50.0	11.1
7			9.1	20.0			5.6
8	16.7	33.3	27.3	40.0	57.1	50.0	36.1
9		33.3	45.4	20.0	28.6		25.0

* Total effort for each mesh size was 200 yards of net.

± s.d. = standard deviation.

Table 19. Mesh size effects on whitefish catches in Costello Lake, 1985.

	Mesh size (inches)						
	1.5	2.0	3.0	3.75	4.25	5.0	Total
Number caught	1	2	3	2	4	8	20
CUE*(No/100 yds/day)	0.67	1.33	2.00	1.33	2.67	5.33	2.22
CUE*(Kg/100yds/day)	1.23	2.24	2.69	0.98	4.07	8.78	3.36
Mean Length (mm)± s.d.	466 ± -	449 ± 18.38	403 ± 62.94	346 ± 10.61	442 ± 4.12	447 ± 13.85	430 ± 40.51
Mean Weight (g) ± s.d.	1840 ± -	1680 ± 141.42	1343 ± 620.67	735 ± 35.36	1602 ± 153.49	1646 ± 186.77	1514 ± 379.77
Number Mature	1	2	2	2	4	8	19
Number Immature	0	0	1	0	0	0	1
% Mature	100.0	100.0	66.7	100.0	100.0	100.0	95.0
Mean Age (years)	13.00	18.00	12.00	3.00	16.50	12.88	13.00
Age (years)	Frequency (%)						
3			33.3	100.0			15.0
7						25.0	10.0
9						12.5	5.0
13	100.0		33.3		50.0	12.5	25.0
14						25.0	10.0
15		50.0					5.0
19					25.0	12.5	10.0
20			33.3			12.5	10.0
21		50.0			25.0		10.0

* Total effort for each mesh size was 150 yards of net.

± s.d. = standard deviation.

Table 20. Mesh size effects on whitefish catches in Suwannee Lake, 1985.

	Mesh size (inches)						
	1.5	2.0	3.0	3.75	4.25	5.0	Total
Number caught	22	18	9	27	36	57	169
CUE*(No/100 yds/day)	14.67	12.00	6.00	18.00	24.00	38.00	18.78
CUE*(Kg/100yds/day)	15.24	16.83	7.42	24.32	34.55	56.35	25.78
Mean Length (mm)± s.d.	364 ± 94.90	412 ± 78.04	408 ± 37.21	418 ± 30.61	426 ± 31.13	432 ± 21.00	416 ± 52.54
Mean Weight (g) ± s.d.	1039 ± 645.33	1403 ± 585.61	1237 ± 411.07	1351 ± 305.95	1439 ± 297.66	1483 ± 250.74	1373 ± 411.73
Number Mature	2	6	3	5	13	19	48
Number Immature	6	2	0	0	0	0	8
% Mature	25.0	75.0	100.0	100.0	100.0	100.0	85.7
Number aged[1]	8	8	3	5	13	19	56
Mean Age (years)	5.25	8.38	16.00	12.40	12.85	12.68	11.20
Age (years)	Frequency (%)						
2	50.0	25.0					10.7
3	12.5						1.8
4	12.5		33.3	20.0	15.4	5.3	10.7
5						5.3	1.8
6						10.5	3.6
7		25.0			15.4	10.5	10.7
8	12.5	12.5			7.7	5.3	7.1
9				20.0	7.7	5.3	5.4
11		12.5					1.8
12						5.3	1.8
13				20.0	7.7	5.3	5.4
14		12.5				5.3	3.6
15					15.4	10.5	7.1
16		12.5		20.0		5.3	5.4
17					7.7	5.3	3.6
19	12.5				7.7	5.3	5.4
20				20.0		5.3	3.6
21			33.3				1.8
22						5.3	1.8
23			33.3		7.7		3.6
26					7.7	5.3	3.6

* Total effort for each mesh size was 150 yards of net.

± s.d. = standard deviation.

1 Sex/maturity and age data only collected from this number of whitefish.

Table 21. Mesh size effects on whitefish catches in Notigi Lake, 1985.

	Mesh size (inches)						
	1.5	2.0	3.0	3.75	4.25	5.0	Total
Number caught	10	10	29	32	5	2	88
CUE*(No/100 yds/day)	5.00	5.00	14.50	16.00	2.50	1.00	7.33
CUF*(Kg/100yds/day)	0.75	1.96	4.45	7.94	2.75	1.77	3.27
Mean Length (mm)± s.d.	206 ± 54.32	253 ± 96.65	275 ± 25.27	318 ± 41.17	412 ± 38.05	456 ± 62.23	292 ± 70.66
Mean Weight (g) ± s.d.	150 ± 108.42	392 ± 729.09	307 ± 119.32	496 ± 273.45	1100 ± 262.68	1770 ± 947.52	446 ± 428.27
Number Mature	0	1	2	13	5	2	23
Number Immature	10	9	27	19	0	0	65
% Mature	0.0	10.0	6.9	40.6	100.0	100.0	26.1
Mean Age (years)	4.50	6.90	7.52	7.75	9.60	12.50	7.42
Age (years)	Frequency (%)						
3	50.0	10.0					6.8
4	10.0						1.1
5		10.0	3.4	3.1			3.4
6	20.0	10.0	13.8	9.4			11.4
7	20.0	40.0	27.6	21.9			23.9
8		20.0	44.8	43.8			33.0
9			6.9	18.8	60.0	50.0	13.6
10				3.1	20.0		2.3
11		10.0	3.4		20.0		3.4
16						50.0	1.1

* Total effort for each mesh size was 200 yards of net.

± s.d. = standard deviation.

Table 22. Mesh size effects on whitefish catches in Wapisu Lake, 1985.

	Mesh size (inches)						
	1.5	2.0	3.0	3.75	4.25	5.0	Total
Number caught	1	10	5	9	7	7	39
CUE*(No/100 yds/day)	0.40	4.00	2.00	3.60	2.80	2.80	2.60
CUE*(Kg/100yds/day)	0.28	0.70	0.59	1.98	2.29	2.85	1.45
Mean Length (mm)± s.d.	380 ± -	229 ± 35.89	284 ± 23.81	338 ± 46.01	383 ± 21.50	424 ± 31.90	327 ± 78.84
Mean Weight (g) ± s.d.	700 ± -	176 ± 93.71	296 ± 105.26	549 ± 223.41	817 ± 137.81	1017 ± 180.90	557 ± 348.00
Number Mature	1	0	1	5	7	7	21
Number Immature	0	10	4	4	0	0	18
% Mature	100.0	0.0	25.0	55.6	100.0	100.0	53.9
Mean Age (years)	8.00	5.10	7.00	8.22	9.71	12.14	8.23
Age (years)	Frequency (%)						
3		10.0					2.6
4		10.0					2.6
5		40.0	20.0				12.8
6		40.0	20.0				12.8
7				22.2			5.1
8	100.0		60.0	55.6	57.1	28.6	38.5
9					14.3		2.6
10				22.2	14.3		7.7
11						14.3	2.6
12						14.3	2.6
13						14.3	2.6
16						14.3	2.6
17					14.3	14.3	5.1

* Total effort for each mesh size was 250 yards of net.

± s.d. = standard deviation.

Table 23. Mesh size effects on whitefish catches in Footprint Lake, 1985.

	Mesh size (inches)						
	1.5	2.0	3.0	3.75	4.25	5.0	Total
Number caught	3	21	40	50	55	18	187
CUE*(No/100 yds/day)	1.71	12.00	22.86	28.57	31.43	10.29	17.81
CUE*(Kg/100yds/day)	0.74	1.66	10.72	20.73	28.70	10.40	12.19
Mean Length (mm)± s.d.	239 ± 143.49	209 ± 24.64	314 ± 59.80	350 ± 38.52	377 ± 37.52	392 ± 21.64	337 ± 69.27
Mean Weight (g) ± s.d.	430 ± 649.54	138 ± 39.58	469 ± 172.72	726 ± 214.48	913 ± 236.86	1011 ± 139.62	683 ± 334.85
Number Mature	0	0	4	8	10	4	26
Number Immature	1	8	2	6	7	3	27
% Mature	0.0	0.0	66.7	57.1	58.8	57.1	49.1
Number aged[1]	1	8	6	14	17	7	53
Mean age (years)	2.00	2.50	5.33	6.00	7.24	7.43	5.91
Age (years)	Frequency (%)						
2	100.0	50.0					9.4
3		50.0					7.6
4			33.3	14.3	5.9		9.4
5			33.3	14.3	11.8		11.3
6				42.9	17.7	42.9	22.6
7			33.3	14.3	23.5	14.3	17.0
8				14.3	35.3		15.1
9						42.9	5.7
15					5.9		1.9

* Total effort for each mesh size was 175 yards of net.

± s.d. = standard deviation.

[1] Sex/maturity and age data only collected from this number of whitefish.

Table 24. Mesh size effects on whitefish catches in Threepoint Lake, 1985.

	Mesh size (inches)						
	1.5	2.0	3.0	3.75	4.25	5.0	Total
Number caught	2	8	20	14	20	4	68
CUE*(No/100 yds/day)	1.33	5.33	13.33	9.33	13.33	2.67	7.56
CUE*(Kg/100yds/day)	0.09	1.51	5.40	6.29	11.40	3.17	4.64
Mean Length (mm)± s.d.	184 ± 6.36	247 ± 81.91	304 ± 36.24	358 ± 36.83	382 ± 41.48	428 ± 35.38	335 ± 71.09
Mean Weight (g) ± s.d.	65 ± 7.07	282 ± 432.33	405 ± 151.40	674 ± 221.97	855 ± 280.31	1190 ± 236.36	614 ± 365.29
Number Mature	0	1	2	9	13	4	29
Number Immature	2	6	12	2	2	0	24
% Mature	0.0	14.3	14.3	81.8	86.7	100.0	54.7
Number aged[1]	2	7	14	11	15	4	53
Mean Age (years)	3.00	4.57	6.07	7.27	8.13	9.75	6.87
Age (years)	Frequency (%)						
3	100.0	14.3					5.7
4		57.1	14.3				11.3
5		14.3	35.7		6.7		13.2
6			28.6	18.2	6.7		13.2
7				45.4	13.3		13.2
8		14.3	14.3	27.3	33.3	50.0	24.5
9				9.1	26.7		9.4
10					6.7		1.9
11					6.7	25.0	3.8
12			7.1			25.0	3.8

* Total effort for each mesh size was 150 yards of net.

± s.d. = standard deviation.

[1] Sex/maturity and age data only collected from this number of fish.

Table 25. Mesh size effects on whitefish catches in Birch Tree Lake, 1985.

	Mesh size (inches)						
	1.5	2.0	3.0	3.75	4.25	5.0	Total
Number caught	2	1	11	6	5	9	34
CUE*(No/100 yds/day)	1.00	0.50	5.50	3.00	2.50	4.50	2.83
CUE*(Kg/100yds/day)	0.31	0.80	2.63	1.93	1.90	5.16	2.00
Mean Length (mm)± s.d.	249 ± 128.69	222 ± -	315 ± 41.40	340 ± 22.50	359 ± 35.91	404 ± 30.62	343 ± 61.36
Mean Weight (g) ± s.d.	310 ± 381.84	160 ± -	478 ± 203.66	643 ± 115.53	760 ± 252.59	1147 ± 230.00	706 ± 359.89
Number Mature	1	0	8	6	3	8	26
Number Immature	1	1	3	0	2	1	8
% Mature	50.0	0.0	72.7	100.0	60.0	88.9	76.5
Mean Age (years)	5.00	3.00	6.27	7.00	7.60	8.67	7.06
Age (years)	Frequency (%)						
2	50.0						
3		100.0					2.9
4			18.2				2.9
5			18.2	16.7			5.9
7			45.4	50.0	60.0	11.1	8.8
8	50.0		18.2	33.3	20.0	55.6	35.3
9					20.0	11.1	32.4
10						11.1	5.9
12						11.1	2.9

* Total effort for each mesh size was 200 yards of net.

± s.d. = standard deviation.

Table 26. Mesh size effects on walleye catches in Pemichigamau Lake, 1985.

	Mesh size (inches)						
	1.5	2.0	3.0	3.75	4.25	5.0	Total
Number caught	21	37	59	43	44	9	213
CUE*(No/100 yds/day)	10.50	18.50	29.50	21.50	22.00	4.50	17.75
CUE*(Kg/100yds/day)	3.67	9.28	20.54	15.71	25.76	6.16	13.52
Mean Length (mm)+ s.d.	280 + 110.62	332 + 91.86	388 + 58.81	398 + 60.64	470 + 53.72	473 + 75.69	390 + 92.05
Mean Weight (g) ± s.d.	350 ± 503.33	502 ± 514.43	696 ± 329.35	730 ± 312.61	1171 ± 371.41	1368 ± 433.90	762 ± 482.98
Number Mature	5	12	25	26	29	8	105
Number Immature	16	25	26	12	8	1	88
% Mature	23.8	32.4	49.0	68.4	78.4	88.9	54.4
Number aged[1]	21	37	51	38	37	9	193
Mean Age (years)	6.57	9.08	12.86	12.74	17.51	19.00	12.50
Age (years)	Frequency (%)						
2	23.8						2.6
3	4.8	2.7		2.6			1.6
4	23.8	18.9		2.6			6.7
5	9.5	10.8	2.0				3.6
6	4.8	13.5	7.8				5.2
9	9.5	8.1					2.6
10		8.1	15.7	10.5	5.4		8.8
11	4.8	8.1	13.7	10.5	5.4		8.8
12		5.4	25.5	13.2	10.8	11.1	13.0
13	9.5	8.1	13.7	31.6	13.5	11.1	15.5
14	4.8	5.4	3.9	7.9			4.2
15		2.7	2.0	13.2	5.4	11.1	5.2
16				2.6	2.7		1.0
18		2.7	3.9		2.7	11.1	2.6
19			5.9	2.6	16.2		5.2
20	4.8	2.7			2.7	11.1	2.1
21		2.7			5.4		1.6
22			3.9		16.2	22.2	5.2
23			2.0		2.7		1.0
24					5.4	11.1	1.6
25				2.6	5.4	11.1	2.1

*Total effort for each mesh size was 200 yards of net.

± s.d. = standard deviation.

[1] Sex/maturity and age data only collected on this number of walleye.

Table 27. Mesh size effects on walleye catches in Costello Lake, 1985.

	Mesh size (inches)						
	1.5	2.0	3.0	3.75	4.25	5.0	Total
Number caught	5	10	19	29	56	2	121
CUE*(No/100 yds/day)	3.33	6.67	12.67	19.33	37.33	1.33	13.44
CUE*(Kg/100yds/day)	2.85	6.51	12.69	17.76	37.25	1.82	13.14
Mean Length (mm)± s.d.	436 ± 21.18	452 ± 20.79	456 ± 26.96	440 ± 25.44	455 ± 28.54	524 ± 76.25	451 ± 29.43
Mean Weight (g) ± s.d.	854 ± 127.00	976 ± 127.47	1002 ± 177.11	91 ± 119.99	998 ± 138.46	1365 ± 615.18	978 ± 161.31
Number Mature	4	3	12	9	23	1	52
Number Immature	0	0	0	1	0	0	1
Z Mature	100.0	100.0	100.0	90.0	100.0	100.0	98.1
Number aged[1]	4	3	12	10	23	1	53
Mean Age (years)	12.00	20.50	16.58	17.40	14.30	22.00	15.34
Age (years)	Frequency (Z)						
6				10.0	4.4		3.8
11	40.0				4.4		5.7
12	20.0		25.0	10.0	47.8		30.2
13		20.0	25.0	20.0	8.7		17.0
14	20.0				4.4		3.8
15		10.0			4.4		3.8
16			8.3				1.9
17			8.3				1.9
19			8.3	20.0	8.7		9.4
20					4.4		1.9
21					4.4		1.9
22				20.0	4.4	100.0	7.6
23			8.3				1.9
24			8.3	20.0	4.4		7.6
25			8.3				1.9

* Total effort for each mesh size was 150 yards of net.

± s.d. = standard deviation.

[1] Sex/maturity and age data only collected on this number of walleye.

Table 28. Mesh size effects on walleye catches in Suwannee Lake, 1985.

	Mesh size (inches)						
	1.5	2.0	3.0	3.75	4.25	5.0	Total
Number caught	4	12	2	6	8	2	34
CUE*(No/100 yds/day)	2.67	8.00	1.33	4.00	5.33	1.33	3.78
CUE*(Kg/100yds/day)	0.59	5.79	1.65	4.49	6.69	1.85	3.51
Mean Length (mm)± s.d.	275 ± 8.72	382 ± 104.63	472 ± 62.93	461 ± 37.21	474 ± 42.27	484 ± 22.63	416 ± 94.11
Mean Weight (g) ± s.d.	220 ± 29.44	724 ± 497.60	1240 ± 509.12	1123 ± 234.15	1254 ± 316.27	1390 ± 84.85	929 ± 497.57
Number Mature	0	6[1]	2	6	8	2	24
Number Immature	4	5	0	0	0	0	9
% Mature	0.0	54.6	100.0	100.0	100.0	100.0	70.6
Mean Age (years)	2.00	6.75	11.50	10.50	11.25	11.50	8.47
Age (years)	Frequency (%)						
2	100.0	25.0					20.6
3		8.3					2.9
4		8.3					2.9
6		16.7		16.7	25.0		14.7
10		16.7		50.0	12.5		17.6
11		8.3	50.0		25.0	50.0	14.7
12		8.3	50.0		12.5	50.0	11.6
13		8.3		16.7	12.5		8.8
14				16.7			2.9
21					12.5		2.9

* Total effort for each mesh size was 150 yards of net.

± s.d. = Standard deviation.

[1] Unknown sex/maturity for 1 walleye.

Table 29. Mesh size effects on walleye catches in Notigi Lake, 1985.

	Mesh size (inches)						
	1.5	2.0	3.0	3.75	4.25	5.0	Total
Number caught	4	4	5	7	1	4	25
CUE*(No/100 yds/day)	2.00	2.00	2.50	3.50	0.50	2.00	2.08
CUE*(Kg/100yds/day)	1.01	0.94	2.82	3.30	0.32	2.21	1.77
Mean Length (mm)± s.d.	269 ± 180.93	340 ± 86.42	452 ± 56.06	414 ± 86.90	380 ± -	439 ± 69.56	389 ± 110.67
Mean Weight (g) ± s.d.	505 ± 903.38	470 ± 333.27	1128 ± 439.91	943 ± 623.69	640 ± -	1105 ± 532.51	848 ± 569.69
Number Mature	1	1	5	2	1	2	12
Number Immature	3	3	0	5	0	2	13
% Mature	25.0	25.0	100.0	28.6	100.0	50.0	48.0
Mean Age (years)	4.75	6.00	13.40	11.00	8.00	10.50	9.48
Age (years)	Frequency (%)						
2	50.0						8.0
3	25.0						4.0
4		50.0					8.0
5						25.0	4.0
6		25.0		14.3			8.0
7				14.3			4.0
8					100.0	25.0	8.0
9			20.0	28.6			12.0
10		25.0	20.0	14.3		25.0	16.0
12	25.0		20.0				8.0
15				14.3			4.0
17			20.0				4.0
19			20.0			25.0	8.0
21				14.3			4.0

* Total effort for each mesh size was 200 yards of net.

± s.d. = standard deviation.

Table 30. Mesh size effects on walleye catches in Wapisu Lake, 1985.

	Mesh size (inches)						
	1.5	2.0	3.0	3.75	4.25	5.0	Total
Number caught	12	35	21	26	10	3	107
CUE*(No/100 yds/day)	4.80	14.00	8.40	10.40	4.00	1.20	7.13
CUE*(Kg/100yds/day)	1.42	5.38	4.49	8.37	3.43	1.16	4.04
Mean Length (mm)± s.d.	268 ± 104.58	307 ± 81.40	365 ± 36.62	417 ± 47.45	422 ± 59.03	443 ± 21.94	355 ± 87.00
Mean Weight (g) ± s.d.	297 ± 321.91	384 ± 299.19	534 ± 133.14	805 ± 303.01	858 ± 376.11	967 ± 167.73	567 ± 350.54
Number Mature	2	9	14	25	8	3	61
Number Immature	10	26	7	1	2	0	46
% Mature	16.7	25.7	66.7	96.2	80.0	100.0	57.0
Mean Age (years)	5.67	8.74	13.14	14.31	14.10	14.67	11.28
Age (years)	Frequency (%)						
2	25.0						2.8
3	16.7	5.71					3.7
4	25.0	22.9					10.3
5		2.9					0.9
6		11.4					3.7
7		2.9					0.9
9	8.3	8.6		3.9			4.7
10	8.3		14.3	3.9			4.7
11		8.6	19.1	3.9	20.0		9.4
12	8.3	20.0	23.8	42.3	30.0		25.2
13	8.3	8.6	14.3			66.7	8.4
14		5.7	4.8	7.7	10.0		5.6
15			9.5	7.7	10.0		4.7
16			4.8	7.7	10.0		3.7
18				11.5		33.3	3.7
19				7.7	20.0		3.7
20			4.8				0.9
21		2.9					0.9
23			4.8				0.9
28				3.9			0.9

* Total effort for each mesh size was 250 yards of net.

± s.d. = standard deviation.

Table 31. Mesh size effects on walleye catches in Footprint Lake, 1985.

	Mesh size (inches)						
	1.5	2.0	3.0	3.75	4.25	5.0	Total
Number caught	30	19	4	6	4		63
CUE*(No/100 yds/day)	17.14	10.86	2.28	3.43	2.28		6.00
CUE*(Kg/100yds/day)	1.85	2.26	1.41	2.59	1.84		1.66
Mean Length (mm)± s.d.	191 ± 66.71	260 ± 55.98	389 ± 60.21	429 ± 22.26	422 ± 63.64	- ± -	262 ± 105.84
Mean Weight (g) ± s.d.	108 ± 164.01	208 ± 134.26	618 ± 244.73	755 ± 103.68	805 ± 316.70	- ± -	276 ± 298.88
Number Mature	5	4	1	3	2		15
Number Immature	24	14	1	0	2		41
% Mature	17.2	22.2	50.0	100.0	50.0		26.8
Number aged[1]	29	18	2	3	4		56
Mean Age (years)	2.90	6.00	9.50	14.00	11.75		5.36
Age (years)	Frequency (%)						
2	79.3	5.6					42.9
3	6.9	11.1					7.1
4	6.9	44.4			25.0		19.6
5		11.1					3.6
7			50.0				1.8
10	3.4	5.6		33.3			5.4
11		11.1			25.0		5.4
12			50.0				1.8
13		11.1		33.3			5.4
14	3.4				25.0		3.6
18					25.0		1.8
19				33.3			1.8

* Total effort for each mesh size was 175 yards of net.

± s.d. = standard deviation.

[1] Sex/maturity and age data only collected for this number of walleye.

Table 32. Mesh size effects on walleye catches in Threepoint Lake, 1985.

	Mesh size (inches)						
	1.5	2.0	3.0	3.75	4.25	5.0	Total
Number caught	12	11	15	16	4	1	59
CUE*(No/100 yds/day)	8.00	7.33	10.00	10.67	2.67	0.67	6.56
CUE*(Kg/100yds/day)	1.01	2.07	4.71	7.86	3.80	0.95	3.40
Mean Length (mm)± s.d.	218 ± 55.17	282 ± 66.00	352 ± 33.41	393 ± 81.58	506 ± 22.80	535 ± -	337 ± 102.06
Mean Weight (g) ± s.d.	126 ± 111.39	283 ± 217.99	471 ± 114.55	737 ± 292.98	1425 ± 255.67	1430 ± -	519 ± 408.02
Number Mature	0	1	7	13	3	1	25
Number Immature	12	10	8	3	1	0	34
% Mature	0.0	9.1	46.7	81.2	75.0	100.0	42.4
Mean Age (years)	4.08	6.09	10.00	11.50	15.0	22.0	9.02
Age (years)	Frequency (%)						
1				6.3			1.7
2	33.3						6.8
3	25.0	9.1					6.8
4	25.0	36.4					11.9
5		9.1					1.7
6		9.1	13.3				5.1
8				6.3			1.7
9	8.3	27.3	53.3				20.3
10		9.1					1.7
11	8.3		13.3	12.5			10.2
12			6.7	43.8			13.6
13				18.8			5.1
14			6.7				1.7
15				12.5	66.7		6.8
18			6.7				1.7
19					33.3		1.7
22						100.0	1.7

* Total effort for each mesh size was 150 yards of net.

± s.d. = standard deviation.

Table 33. Mesh size effects on walleye catches in Birch Tree Lake, 1985.

	Mesh size (inches)						
	1.5	2.0	3.0	3.75	4.25	5.0	Total
Number caught	3	6	3	3	1	1	17
CUE*(No/100 yds/day)	1.50	3.00	1.50	1.50	0.50	0.50	1.42
CUE*(Kg/100yds/day)	0.18	0.51	0.80	1.34	0.42	0.79	0.67
Mean Length (mm)± s.d.	223 ± 46.96	243 ± 35.99	356 ± 66.76	421 ± 56.72	422 ± -	534 ± -	320 ± 107.19
Mean Weight (g) ± s.d.	120 ± 103.92	170 ± 88.32	533 ± 353.46	893 ± 355.72	840 ± -	1580 ± -	475 ± 460.25
Number Mature	0	0	1	3	1	1	6
Number Immature	3	6	2	0	0	0	11
% Mature	0.0	0.0	33.3	100.0	100.0	100.0	35.3
Mean Age (years)	3.50[1]	5.00	14.3	20.0	14.0	18.0	10.75
Age (years)	Frequency (%)						
1	50.0						6.2
2		16.7					6.2
4		33.3					12.5
5		16.7					6.2
6	50.0	16.7					12.5
8			33.3				6.2
9		16.7					6.2
10			33.3				6.2
12				33.3			6.2
14					100.0		6.2
18							6.2
19				33.3			6.2
25							6.2
29				33.3			6.2

* Total effort for each mesh size was 200 yards of net.

± s.d. = standard deviation.

[1] One walleye with an unknown age.

Table 34. Mesh size effects on sauger catches in Wapisu Lake, 1985.

	Mesh size (inches)						
	1.5	2.0	3.0	3.75	4.25	5.0	Total
Number caught	2	16	3	1			22
CUE*(No/100 yds/day)	0.80	6.40	1.20	0.40			1.47
CUE*(Kg/100yds/day)	0.06	1.30	0.40	0.14			0.32
Mean Length (mm)± s.d.	191 ± 4.24	274 ± 31.01	323 ± 21.20	330 ± -	- ± -	- ± -	275 ± 43.27
Mean Weight (g) ± s.d.	70 ± 14.14	202 ± 61.48	333 ± 50.33	360 ± -	- ± -	- ± -	215 ± 89.85
Number Mature	0	14	3	0			17
Number Immature	2	2	0	1			5
% Mature	0.0	87.5	100.0	0.0			77.3
Mean Age (years)	4.00	10.25	14.33	14.00			10.41
Age (years)	Frequency (%)						
4	100.0	6.3					13.6
8		6.3					4.6
9		37.5					27.3
10		12.5					9.1
11		6.3					4.6
12		18.8					13.6
13			33.3				4.6
14				100.0			4.6
15		6.3	66.7				13.6
16		6.3					4.6

* Total effort for each mesh size was 250 yards of net.

± s.d. = standard deviation.

Table 35. Mesh size effects on sauger catches in Footprint Lake, 1985.

	Mesh size (inches)						
	1.5	2.0	3.0	3.75	4.25	5.0	Total
Number caught		3	2				5
CUE*(No/100 yds/day)		1.71	1.14				0.48
CUE*(Kg/100yds/day)		0.77	0.46				0.20
Mean Length (mm)± s.d.		353 ± 32.13	356 ± 10.61	- ± -	- ± -	- ± -	354 ± 23.42
Mean Weight (g) ± s.d.		450 ± 117.90	400 ± 28.28	- ± -	- ± -	- ± -	430 ± 88.88
Number Mature		3	2				5
Number Immature		0	0				0
% Mature		100.0	100.0				100.0
Mean Age (years)		12.67	11.50				12.09
Age (years)	Frequency (%)						
9		33.3					20.0
11			50.0				20.0
12			50.0				20.0
14		33.3					20.0
15		33.3					20.0

* Total effort for each mesh size was 175 yards of net.

± s.d. = standard deviation.

Table 36. Mesh size effects on sauger catches in Threepoint Lake, 1985.

	Mesh size (inches)						
	1.5	2.0	3.0	3.75	4.25	5.0	Total
Number caught		7	5			1	13
CUE*(No/100 yds/day)		4.67	3.33			0.67	1.44
CUE*(Kg/100yds/day)		1.11	1.29			0.18	0.43
Mean Length (mm)± s.d.		296 ± 26.49	348 ± 12.74	- ± -	- ± -	304 ± -	316 ± 32.78
Mean Weight (g) ± s.d.		237 ± 71.11	388 ± 30.33	- ± -	- ± -	270 ± -	298 ± 91.85
Number Mature		6	5			1	12
Number Immature		1	0			0	1
% Mature		85.70	100.0			100.0	92.3
Mean Age (years)		10.14	15.2			10.0	12.08
Age (years)	Frequency (%)						
8		14.3					7.7
9		57.1					30.8
10						100.0	7.7
11			20.0				7.7
12		14.3					7.7
15		14.3	40.0				23.1
16			20.0				7.7
19			20.0				7.7

* Total effort for each mesh size was 150 yards of net.

± s.d. = standard deviation.

Table 37. Mesh size effects on northern pike catches in Pemichigamau Lake, 1985.

	Mesh size (inches)						
	1.5	2.0	3.0	3.75	4.25	5.0	Total
Number caught	7	16	17	20	21	9	90
CUE*(No/100 yds/day)	3.50	8.00	8.50	10.00	10.50	4.50	7.50
CUE*(Kg/100yds/day)	6.67	12.29	25.03	29.37	31.97	18.41	20.62
Mean Length (mm)± s.d.	576 ± 235.62	550 ± 188.18	705 ± 139.60	731 ± 61.38	707 ± 104.85	798 ± 75.92	683 ± 152.31
Mean Weight (g) ± s.d.	1906 ± 1445.43	1536 ± 1373.69	2945 ± 1738.59	2937 ± 840.61	3044 ± 2255.04	4090 ± 1556.81	2749 ± 1747.01
Number Mature	5	13	15	20	21	9	83
Number Immature	2	3	2	0	0	0	7
% Mature	71.4	81.3	88.2	100.0	100.0	100.0	92.2
Mean Age (years)	7.00	6.94	9.47	9.70	9.10	10.8	8.9
Age (years)	Frequency (%)						
1	14.3						1.1
2	14.3						1.1
3		12.5					2.2
4		18.8					3.3
5		12.5					2.2
6		6.3	11.8	5.0	9.5		6.7
7	14.3	6.3	17.7		4.8		6.7
8	14.3	12.5	11.8	15.0	33.3	11.1	17.8
9	14.3	12.5	5.9	20.0	28.6	33.3	18.9
10	14.3		23.5	30.0	4.8	11.1	14.4
11		6.3	5.9	20.0	4.8	11.1	8.9
12	14.3	6.3	11.8	10.0		11.1	7.8
13		6.3			4.8	11.1	3.3
14			11.8		9.5		4.4
16						11.1	1.1

* Total effort for each mesh size was 200 yards of net.

± s.d. = standard deviation.

Table 38. Mesh size effects on northern pike catches in Costello Lake, 1985.

	Mesh size (inches)						
	1.5	2.0	3.0	3.75	4.25	5.0	Total
Number caught	28	81	115	7	2	2	235
CUE*(No/100 yds/day)	18.67	54.00	76.67	4.67	1.33	1.33	26.11
CUE*(Kg/100yds/day)	8.42	28.61	53.58	4.51	1.49	1.50	16.35
Mean Length (mm)± s.d.	398 ± 63.83	417 ± 77.05	473 ± 40.82	521 ± 27.98	550 ± 113.14	563 ± 41.01	448 ± 68.59
Mean Weight (g) ± s.d.	451 ± 179.57	530 ± 375.71	699 ± 202.84	967 ± 199.48	1115 ± 799.03	1125 ± 190.92	626 ± 305.05
Number Mature	3	17	20	5	1	1	47
Number Immature	4	2	0	0	0	0	6
% Mature	42.9	89.5	100.0	100.0	100.0	100.0	87.0
Number aged[1]	8	19	20	5	1	1	54
Mean Age (years)	2.25	3.16	4.55	5.20	6.00	6.00	3.83
Age (years)	Frequency (%)						
1	12.5	10.5					1.9
2	75.0	31.6					22.2
3		21.1	10.0				11.1
4		21.1	45.0	20.0			25.9
5	12.5	10.5	35.0	40.0			22.2
6				40.0	100.0	100.0	7.4
7			10.0				3.7
8		5.3					1.9

* Total effort for each mesh size was 150 yards of net.

± s.d. = standard deviation.

[1] Sex/maturity and age data only collected from this number of pike (in 1.5" mesh sex/mat data only taken from 7 pike).

Table 39. Mesh size effects on northern pike catches in Suwannee Lake, 1985.

	Mesh size (inches)						
	1.5	2.0	3.0	3.75	4.25	5.0	Total
Number caught	47	71	108	43	10	3	282
CUE*(No/100 yds/day)	31.33	47.33	72.00	28.67	6.67	2.00	31.33
CUE*(Kg/100yds/day)	21.31	33.65	60.85	27.49	7.79	1.82	25.48
Mean Length (mm)± s.d.	461 ± 84.96	464 ± 80.99	504 ± 46.61	531 ± 48.61	556 ± 67.65	530 ± 16.64	493 ± 70.40
Mean Weight (g) ± s.d.	680 ± 265.46	711 ± 361.50	845 ± 234.15	959 ± 276.91	1169 ± 538.32	910 ± 141.07	813 ± 315.76
Number Mature	4	10	15	10	7		46
Number Immature	4	6	0	0	0		10
% Mature	50.0	62.5	100.0	100.0	100.0		82.1
Number aged[1]	8	16	15	10	7	0	55
Mean Age (years)	2.28	3.19	4.67	4.80	5.28		4.04
Age (years)	Frequency (%)						
1	42.9	12.5					9.1
2		37.5					10.9
3	42.9	18.8	6.7	10.0			14.6
4	14.3	6.2	46.7	30.0	42.9		27.3
5		18.8	33.3	30.0	14.3		21.8
6				30.0	14.3		7.3
7			13.3		28.6		7.3
9		6.2					1.8

* Total effort for each mesh size was 150 yards of net.

± s.d. = standard deviation.

[1] Sex/maturity and age data only collected from this number of pike.

Table 40. Mesh size effects on northern pike catches in Notigi Lake, 1985.

	Mesh size (inches)						
	1.5	2.0	3.0	3.75	4.25	5.0	Total
Number caught	3	13	13	17	12	4	62
CUE*(No/100 yds/day)	1.50	6.50	6.50	8.50	6.00	2.00	5.17
CUE*(Kg/100yds/day)	2.73	9.78	16.81	19.43	12.70	4.64	11.02
Mean Length (mm)± s.d.	633 ± 85.14	566 ± 150.32	700 ± 91.01	668 ± 72.94	668 ± 62.50	669 ± 24.47	652 ± 103.20
Mean Weight (g) ± s.d.	1820 ± 922.61	1505 ± 1099.31	2586 ± 1046.31	2286 ± 792.77	2117 ± 672.07	2320 ± 354.78	2132 ± 929.20
Number Mature	3	8	13	16	11	3	54[1]
Number Immature	0	5	0	0	1	0	6
% Mature	100.0	61.5	100.0	100.0	91.7	100.0	90.0
Mean Age (years)	7.33	7.00	8.38	8.53	8.17	9.00	8.08
Age (years)	Frequency (%)						
3		7.7					1.6
4		7.7					1.6
5		15.4			8.3		4.8
6		7.7	30.8				8.1
7	66.7	7.7	7.7	35.3	16.7		19.4
8	33.3	23.1	23.1	23.5	41.7	25.0	27.4
9		23.1		23.5	8.3	50.0	16.1
10		7.7	7.7		25.0	25.0	9.7
11			30.8	11.8			9.7
13				5.9			1.6

* Total effort for each mesh size was 200 yards of net.

± s.d. = standard deviation.

[1] 2 pike had unknown sex and maturity.

Table 41. Mesh size effects on northern pike catches in Wapisu Lake, 1985.

	Mesh size (inches)						
	1.5	2.0	3.0	3.75	4.25	5.0	Total
Number caught	13	11	4	8	5	1	42
CUE*(No/100 yds/day)	5.20	4.40	1.60	3.20	2.00	0.40	2.80
CUE*(Kg/100yds/day)	7.79	5.23	2.82	7.18	6.04	1.79	5.14
Mean Length (mm)± s.d.	572 ± 149.31	496 ± 169.98	624 ± 65.45	658 ± 133.52	726 ± 78.81	822 ± -	598 ± 156.47
Mean Weight (g) ± s.d.	1498 ± 784.75	1189 ± 1091.25	1760 ± 989.55	2242 ± 1849.18	3022 ± 1040.39	4480 ± -	1836 ± 1324.77
Number Mature	11	9	4	8	5	1	38
Number Immature	2	2	0	0	0	0	4
% Mature	84.6	81.8	100.0	100.0	100.0	100.0	90.5
Mean Age (years)	6.23	5.40**	7.50	7.38	10.80	13.00	7.10**
Age (years)	Frequency (%)						
1	15.4	10.0					7.3
2		10.0					2.4
3		10.0					2.4
4		20.0					4.9
5	15.4			25.0			9.8
6	15.4	10.0	25.0	25.0			14.6
7	23.1	20.0		25.0			17.1
8			75.0				7.3
9	30.8	10.0			20.0		14.6
10					40.0		4.9
11		10.0		12.5	20.0		7.3
12				12.5			2.4
13						100.0	2.4
14					20.0		2.4

* Total effort for each mesh size was 250 yards of net.

± s.d. = standard deviation.

** excludes 1 pike of unknown age.

Table 42. Mesh size effects on northern pike catches in Footprint Lake, 1985.

	Mesh size (inches)						
	1.5	2.0	3.0	3.75	4.25	5.0	Total
Number caught	8	22	11	5	2		48
CUE*(No/100 yds/day)	4.57	12.57	6.28	2.86	1.14		4.57
CUE*(Kg/100yds/day)	2.42	4.94	3.95	2.69	1.31		2.55
Mean Length (mm)± s.d.	414 ± 86.51	394 ± 44.87	459 ± 26.35	525 ± 76.62	513 ± 120.21	- ± -	431 ± 71.13
Mean Weight (g) ± s.d.	529 ± 322.16	393 ± 145.28	628 ± 93.90	942 ± 386.10	1145 ± 883.88	- ± -	558 ± 317.03
Number Mature	5	21	8	5	2		41
Number Immature	3	1	3	0	0		7
% Mature	62.5	95.4	72.7	100.00	100.0		85.4
Mean Age (years)	3.75	3.86	5.09	5.80	5.00		4.38
Age (years)	Frequency (%)						
2	12.5	9.1					6.2
3	37.5	40.9	9.1		50.0		29.2
4	25.0	18.2	18.2	20.0			18.8
5	12.5	22.7	27.3	40.0			22.9
6	12.5	4.6	45.4				14.6
7		4.6		20.0	50.0		6.2
8				20.0			2.1

* Total effort for each mesh size was 175 yards of net.

± s.d. = standard deviation.

Table 43. Mesh size effects on northern pike catches in Threepoint Lake, 1985.

	Mesh size (inches)						
	1.5	2.0	3.0	3.75	4.25	5.0	Total
Number caught	8	10	15	10	3	3	49
CUE*(No/100 yds/day)	5.33	6.67	10.00	6.67	2.00	2.00	5.44
CUE*(Kg/100yds/day)	2.75	2.45	18.28	14.33	4.25	7.64	8.28
Mean Length (mm)± s.d.	372 ± 144.22	357 ± 84.98	589 ± 141.11	642 ± 93.08	650 ± 114.34	767 ± 41.20	532 ± 176.01
Mean Weight (g) ± s.d.	516 ± 640.29	367 ± 359.26	1828 ± 1685.62	2150 ± 1063.57	2127 ± 1149.97	3820 ± 1008.17	1521 ± 1460.51
Number Mature	3	4	15	10	3	3	38
Number Immature	5	6	0	0	0	0	11
% Mature	37.5	40.0	100.0	100.0	100.0	100.0	77.6
Mean Age (years)	3.38	2.90	6.47	7.50	8.00	8.33	5.65
Age (years)	Frequency (%)						
1	12.5						2.0
2	37.5	60.0					18.4
3	25.0	20.0	13.3				12.2
4		10.0					2.0
5			20.0	20.0			10.2
6			6.7	10.0			4.1
7	25.0	10.0	33.3	10.0	33.3		20.4
8			13.3	30.0	33.3	66.7	16.3
9			6.7	20.0	33.3	33.3	10.2
10			6.7	10.0			4.1

* Total effort for each mesh size was 150 yards of net.

± s.d. = standard deviation.

Table 44. Mesh size effects on northern pike catches in Birch Tree Lake, 1985.

	Mesh size (inches)						
	1.5	2.0	3.0	3.75	4.25	5.0	Total
Number caught		4	5	6	2	3	20
CUE*(No/100 yds/day)		2.00	2.50	3.00	1.00	1.50	1.67
CUE*(Kg/100yds/day)		0.87	1.88	7.39	2.76	7.04	3.32
Mean Length (mm)± s.d.	- ± -	388 ± 89.57	457 ± 63.05	648 ± 173.47	605 ± 219.20	805 ± 178.28	568 ± 192.32
Mean Weight (g) ± s.d.	- ± -	435 ± 327.57	752 ± 216.76	2463 ± 1928.46	2760 ± 1216.22	4693 ± 3079.11	1994 ± 2070.10
Number Mature		3	4	5	2	3	17
Number Immature		1	1	1	0	0	3
% Mature		75.0	80.0	83.3	100.0	100.0	85.0
Mean Age (years)		3.75	4.40	7.00	8.00	8.00	5.95
Age (years)	Frequency (%)						
3		75.0	20.0				20.0
4			40.0	16.7			15.0
5			20.0			33.3	10.0
6		25.0	20.0	33.3			20.0
7				16.7	50.0	33.3	15.0
9				16.7	50.0		10.0
10				16.7			5.0
12						33.3	5.0

* Total effort for each mesh size was 200 yards of net.

± s.d. = standard deviation.

Table 45. Mesh size effects on white sucker, longnose sucker and burbot catches in Pemichigamau Lake, 1985.

Species	Parameter	Mesh size (inches) 1.5	2.0	3.0	3.75	4.25	5.0	Total
White sucker	Number caught				1			1
	CUE*(No/100 yd/day)				0.50			0.08
	CUE*(Kg/100 yd/day)				0.40			0.07
	Mean length (mm)± s.d.				379 ± -			379 ± -
	Mean weight (g) ± s.d.				800 ± -			800 ± -
Longnose sucker	Number caught		2	1	1			4
	CUE*(No/100 yd/day)		1.00	0.55	0.50			0.33
	CUE*(Kg/100 yd/day)		0.38	0.18	0.50			0.18
	Mean length (mm)± s.d.		285 ± 80.61	296 ± -	392 ± -			314 ± 69.73
	Mean weight (g) ± s.d.		375 ± 318.20	360 ± -	990 ± -			525 ± 360.42
Burbot	Number caught			1	1			2
	CUE*(No/100 yd/day)			0.50	0.50			0.17
	CUE*(Kg/100 yd/day)			0.27	0.50			0.13
	Mean length (mm)± s.d.			442 ± -	500 ± -			471 ± 41.01
	Mean weight (g) ± s.d.			540 ± -	1000 ± -			770 ± 325.27

* Total effort for each mesh size was 200 yards of net.

± s.d. = standard deviation.

Table 46. Mesh size effects on sauger, cisco and yellow perch catches in Pemichigamau Lake, 1985.

Species	Parameter	Mesh size (inches) 1.5	2.0	3.0	3.75	4.25	5.0	Total
Sauger	Number caught	1[1.]						1
	CUE*(No/100 yd/day)	0.50						0.08
	CUE*(Kg/100 yd/day)	0.14						0.02
	Mean length (mm)± s.d.	312 ± -						312 ± -
	Mean weight (g) ± s.d.	280 ± _						280 ± -
Cisco	Number caught	4	4	17	9	9	4	47
	CUE*(No/100 yd/day)	2.00	2.00	8.50	4.50	4.50	2.00	3.92
	CUE*(Kg/100 yd/day)	0.94	1.06	4.01	2.48	2.57	1.28	2.06
	Mean length (mm)± s.d.	321 ± 34.81	315 ± 66.75	316 ± 25.80	335 ± 24.98	336 ± 17.79	336 ± 50.21	325 ± 32.03
	Mean weight (g) ± s.d.	470 ± 194.76	528 ± 315.63	471 ± 134.11	552 ± 162.23	571 ± 72.88	642 ± 285.93	525 ± 170.75
Yellow perch	Number caught	1						1
	CUE*(No/100 yd/day)	0.50						0.08
	CUE*(Kg/100 yd/day)	0.02						0.003
	Mean length (mm)± s.d.	138 ± -						138 ± -
	Mean weight (g) ± s.d.	40 ± -						40 ± -

* Total effort for each mesh size was 200 yards of net.

± s.d. = standard deviation.

1. sauger was a 10 year old nature male.

Table 47. Mesh size effects on cisco, white sucker and yellow perch catches in Costello Lake, 1985.

Species	Parameter	1.5	2.0	3.0	3.75	4.25	5.0	Total
Cisco	Number caught	3	2	5	7	10	20	47
	CUE*(No/100 yd/day)	2.00	1.33	3.33	4.67	6.67	13.33	5.22
	CUE*(Kg/100 yd/day)	1.73	1.00	2.55	4.49	7.17	14.95	5.31
	Mean length (mm)± s.d.	365 ± 21.38	332 ± 56.57	336 ± 58.05	370 ± 29.57	375 ± 12.13	390 ± 10.72	374 ± 30.42
	Mean weight (g) ± s.d.	863 ± 105.99	750 ± 466.69	764 ± 360.80	962 ± 260.68	1076 ± 153.06	1121 ± 87.29	1018 ± 225.04
White sucker	Number caught	1	2	43	141	151	9	347
	CUE*(No/100 yd/day)	0.67	1.33	28.67	94.00	100.67	6.00	38.56
	CUE*(Kg/100 yd/day)	0.53	0.93	25.19	94.23	110.93	9.04	40.14
	Mean length (mm)± s.d.	402 ± -	365 ± 18.38	394 ± 30.52	412 ± 27.42	422 ± 19.18	461 ± 19.95	415 ± 27.14
	Mean weight (g) ± s.d.	800 ± -	695 ± 7.07	878 ± 197.53	1002 ± 174.12	1102 ± 141.47	1507 ± 162.86	1041 ± 195.67
Yellow Perch	Number caught	19	22	28	23			92
	CUE*(No/100 yd/day)	12.67	14.67	18.67	15.33			10.22
	CUE*(Kg/100 yd/day)	1.47	2.69	5.31	5.99			2.58
	Mean length (mm)± s.d.	200 ± 26.51	226 ± 25.23	261 ± 19.18	292 ± 9.84			248 ± 39.31
	Mean weight (g) ± s.d.	116 ± 46.93	184 ± 62.07	284 ± 62.68	390 ± 28.36			252 ± 113.24

* Total effort for each mesh size was 150 yards of net.

± s.d. = standard deviation

Table 48. Mesh size effects on cisco, white sucker and longnose sucker catches in Suwannee Lake, 1985.

Species	Parameter	Mesh size (inches) 1.5	2.0	3.0	3.75	4.25	5.0	Total
Cisco	Number caught	1		2	1		1	5
	CUE*(No/100 yd/day)	0.67		1.33	0.67		0.67	0.56
	CUE*(Kg/100 yd/day)	0.21		1.21	0.57		0.99	0.50
	Mean length (mm)± s.d.	277 ± -		390 ± 2.83	395 ± -		422 ± -	375 ± 56.28
	Mean weight (g) ± s.d.	320 ± -		905 ± 162.63	860 ± -		1480 ± -	894 ± 418.55
White sucker	Number caught	4	5	24	75	110	15	233
	CUE*(No/100 yd/day)	2.67	3.33	16.00	50.00	73.33	10.00	25.89
	CUE*(Kg/100 yd/day)	2.91	3.63	15.42	52.07	85.38	13.71	28.85
	Mean length (mm)± s.d.	418 ± 26.95	432 ± 36.74	404 ± 31.14	415 ± 24.60	430 ± 22.59	449 ± 28.91	424 ± 27.27
	Mean weight (g) ± s.d.	1092 ± 291.02	1088 ± 311.72	964 ± 203.98	1041 ± 189.58	1164 ± 192.27	1371 ± 216.99	1114 ± 219.34
Longnose sucker	Number caught		1					1
	CUE*(No/100 yd/day)		0.67					0.11
	CUE*(Kg/100 yd/day)		0.11					0.02
	Mean length (mm)± s.d.		222 ± -					222 ± -
	Mean weight (g) ± s.d.		170 ± -					170 ± -

* Total effort for each mesh size was 150 yards of net.

± s.d. = standard deviation

Table 49. Mesh size effects on yellow perch and burbot catches in Suwannee Lake, 1985.

Species	Parameter	Mesh size (inches) 1.5	2.0	3.0	3.75	4.25	5.0	Total
Yellow perch	Number caught	67	71	10				148
	CUE*(No/100 yd/day)	44.67	47.33	66.67				16.44
	CUE*(Kg/100 yd/day)	3.98	5.18	1.87				1.84
	Mean length (mm)± s.d.	177 ± 24.73	191 ± 20.66	257 ± 24.30				189 ± 30.07
	Mean weight (g) ± s.d.	89 ± 36.67	109 ± 37.41	280 ± 87.81				112 ± 62.49
Burbot	Number caught			1				1
	CUE*(No/100 yd/day)			0.67				0.11
	CUE*(Kg/100 yd/day)			0.71				0.12
	Mean length (mm)± s.d.			476 ± -				476 ± -
	Mean weight (g) ± s.d.			1060 ± -				1060 ± -

* Total effort for each mesh size was 150 yards of net.

± s.d. = standard deviation

Table 50. Mesh size effects on cisco, white sucker, yellow perch and Burbot catches in Notigi Lake, 1985.

Species	Parameter	Mesh size (inches) 1.5	2.0	3.0	3.75	4.25	5.0	Total
Cisco	Number caught	6	20	27	13	4	1	71
	CUE*(No/100 yd/day)	3.00	10.00	13.50	6.50	2.00	0.50	5.92
	CUE*(Kg/100 yd/day)	0.74	1.78	4.99	2.46	1.12	0.32	1.90
	Mean length (mm)± s.d.	244 ± 53.34	234 ± 38.34	288 ± 37.28	291 ± 32.78	330 ± 28.11	352 ± -	273 ± 47.51
	Mean weight (g) ± s.d.	247 ± 123.72	178 ± 60.49	370 ± 208.02	378 ± 125.82	560 ± 176.64	640 ± -	321 ± 186.47
White sucker	Number caught						1	1
	CUE*(No/100 yd/day)						0.50	0.08
	CUE*(Kg/100 yd/day)						0.95	0.16
	Mean length (mm)± s.d.						526 ± -	526 ± -
	Mean weight (g) ± s.d.						1900 ± -	1900 ± -
Yellow perch	Number caught		1					1
	CUE*(No/100 yd/day)		0.50					0.08
	CUE*(Kg/100 yd/day)		0.08					0.01
	Mean length (mm)± s.d.		200 ± -					200 ± -
	Mean weight (g) ± s.d.		160 ± -					160 ± -
Burbot	Number caught			1				1
	CUE*(No/100 yd/day)			0.05				0.08
	CUE*(Kg/100 yd/day)			0.32				0.05
	Mean length (mm)± s.d.			466 ± -				466 ± -
	Mean weight (g) ± s.d.			640 ± -				640 ± -

* Total effort for each mesh size was 200 yards of net.

± s.d. = standard deviation.

Table 51. Mesh size effects on cisco, yellow perch and burbot catches in Wapisu Lake, 1985.

Species	Parameter	Mesh size (inches) 1.5	2.0	3.0	3.75	4.25	5.0	Total
Cisco	Number caught	3	11	13	10	4	2	43
	CUE*(No/100 yd/day)	1.20	4.40	5.20	4.00	1.60	0.80	2.87
	CUE*(Kg/100 yd/day)	0.76	1.18	2.02	2.30	1.04	0.51	1.30
	Mean length (mm)± s.d.**	341 ± 18.90	272 ± 39.54 ($\overline{10}$)	299 ± 25.47	341 ± 30.27 ($\overline{9}$)	362 ± 33.20	349 ± 55.15	313 ± 43.89 ($\overline{41}$)
	Mean weight (g) ± s.d.**	633 ± 151.44	282 ± 142.84	388 ± 115.63	592 ± 146.10	650 ± 234.66	640 ± 339.41	463 ± 205.07
Yellow perch	Number caught	1						1
	CUE*(No/100 yd/day)	0.40						0.07
	CUE*(Kg/100 yd/day)	0.03						0.01
	Mean length (mm)± s.d.	158 ± -						158 ± -
	Mean weight (g) ± s.d.	80 ± -						80 ± -
Burbot	Number caught		1	3	3	6		13
	CUE*(No/100 yd/day)		0.40	1.20	1.20	2.40		0.87
	CUE*(Kg/100 yd/day)		0.08	0.70	1.63	2.73		0.86
	Mean length (mm)± s.d.		292 ± -	417 ± 6.43	541 ± 114.72	519 ± 36.15		483 ± 91.40
	Mean weight (g) ± s.d.		200 ± -	587 ± 41.63	1360 ± 855.80	1137 ± 183.92		989 ± 523.55

* Total effort for each mesh size was 250 yards of net.

± s.d. = standard deviation.

** Based only on number of fish in parenthesis.

Table 52. Mesh size effects on white sucker, longnose sucker and shorthead redhorse sucker catches in Wapisu Lake, 1985.

Species	Parameter	Mesh size (inches) 1.5	2.0	3.0	3.75	4.25	5.0	Total
White sucker	Number caught	3	3	11	31	31	7	86
	CUE*(No/100 yd/day)	1.20	1.20	4.40	12.40	12.40	2.80	5.73
	CUE*(Kg/100 yd/day)	0.68	0.64	3.44	11.87	14.33	3.23	5.70
	Mean length (mm)± s.d.**	394 ± - (1)	364 ± 19.80 (2)	374 ± 36.87 (9)	398 ± 31.84 (26)	422 ± 14.81 (23)	416 ± 37.78 (7)	404 ± 32.45 (68)
	Mean weight (g) ± s.d.**	1020 ± -	730 ± 70.71	793 ± 210.00	962 ± 240.75	1173 ± 127.05	1154 ± 283.01	1025 ± 245.13
Longnose sucker	Number caught				1	2	1	4
	CUE*(No/100 yd/day)				0.40	0.80	0.40	0.27
	CUE*(Kg/100 yd/day)				0.39	0.82	0.60	0.30
	Mean length (mm)± s.d.				404 ± -	400 ± 70.71	444 ± -	412 ± 46.10
	Mean weight (g) ± s.d.				980 ± -	1020 ± 395.98	1500 ± -	1130 ± 336.85
Shorthead redhorse sucker	Number caught	1						1
	CUE*(No/100 yd/day)	0.40						0.07
	CUE*(Kg/100 yd/day)	0.36						0.06
	Mean length (mm)± s.d.	386 ± -						386 ± -
	Mean weight (g) ± s.d.	900 ± -						900 ± -

* Total effort for each mesh size was 250 yards of net.

± s.d. = standard deviation.

** Based only on number of fish in parenthesis.

Table 53. Mesh size effects on cisco and white sucker catches in Footprint Lake, 1985.

Species	Parameter	Mesh size (inches) 1.5	2.0	3.0	3.75	4.25	5.0	Total
Cisco	Number caught	78	76	76	52	40	6	328
	CUE*(No/100 yd/day)	44.57	43.43	43.43	29.71	22.86	3.43	31.24
	CUE*(Kg/100 yd/day)	6.72	10.98	19.28	16.94	14.95	2.32	11.82
	Mean length (mm)± s.d.**	193 ± 63.05 (47)	244 ± 49.25 (76)	304 ± 35.18 (76)	328 ± 23.88 (52)	337 ± 18.54 (40)	336 ± 23.61 (6)	280 ± 65.59 (297)
	Mean weight (g) ± s.d.**	150 ±184.93	253 ± 162.21	444 ± 136.36	570 ± 124.15	654 ± 94.62	677 ± 200.27	404 ± 229.76
White sucker	Number caught	1		3	4	2		10
	CUE*(No/100 yd/day)	0.57		1.71	2.28	1.14		0.95
	CUE*(Kg/100 yd/day)	0.44		1.43	2.10	1.10		0.84
	Mean length (mm)± s.d.	376 ± -		385 ± 14.47	383 ± 11.11	354 ± 87.68		377 ± 33.09
	Mean weight (g) ± s.d.	770 ± -		837 ± 130.51	918 ± 126.06	960 ± 197.99		877 ± 131.91

* Total effort for each mesh size was 175 yards of net.

± s.d. = standard deviation

** Based on number of fish in parenthesis.

Table 54. Mesh size effects on yellow perch, burbot and goldeye catches in Footprint Lake, 1985.

Species	Parameter	Mesh Size (inches) 1.5	2.0	3.0	3.75	4.25	5.0	Total
Yellow perch	Number caught	1	1	1				3
	CUE*(No/100 yd/day)	0.57	0.57	0.57				0.28
	CUE*(Kg/100 yd/day)	0.03	0.10	0.12				0.04
	Mean length (mm)± s.d.	150 ± -	222 ± -	230 ± -				201 ± 44.06
	Mean weight (g) ± s.d.	50 ± -	180 ± -	210 ± -				147 ± 85.05
Burbot	Number caught		5	10	18	5	11	49
	CUE*(No/100 yd/day)		2.86	5.71	10.28	2.86	6.28	4.67
	CUE*(Kg/100 yd/day)		0.95	2.85	9.86	3.62	9.31	4.43
	Mean length (mm)± s.d.		326 ± 52.99	376 ± 39.55	470 ± 56.32	551 ± 77.99	463 ± 100.35	442 ± 90.48
	Mean weight (g) ± s.d.		332 ± 149.90	499 ± 107.67	959 ± 185.53	1266 ± 200.82	1482 ± 456.02	950 ± 469.37
Goldeye	Number caught		1					1
	CUE*(No/100 yd/day)		0.57					0.10
	CUE*(Kg/100 yd/day)		0.30					0.05
	Mean length (mm)± s.d.		349 ± -					349 ± -
	Mean weight (g) ± s.d.		530 ± -					530 ± -

* Total effort for each mesh size was 175 yards of net.

± s.d. = standard deviation.

Table 55. Mesh size effects on cisco, white sucker and longnose sucker catches in Threepoint Lake, 1985.

Species	Parameter	Mesh size (inches) 1.5	2.0	3.0	3.75	4.25	5.0	Total
Cisco	Number caught	1	4	14	12	4	1	36
	CUE*(No/100 yd/day)	0.67	2.67	9.33	8.00	2.67	0.67	4.00
	CUE*(Kg/100 yd/day)	0.38	1.26	4.26	5.01	1.63	0.66	2.20
	Mean length (mm)± s.d.	344 ± -	315 ± 33.95	318 ± 19.75	342 ± 25.04	336 ± 10.25	400 ± -	331 ± 26.98
	Mean weight (g) ± s.d.	570 ± -	472 ± 162.56	456 ± 85.99	626 ± 132.08	612 ± 97.43	990 ± -	550 ± 153.16
White sucker	Number caught	1	2	13	45	27	6	94
	CUE*(No/100 yd/day)	0.67	1.33	8.67	30.00	18.00	4.00	10.44
	CUE*(Kg/100 yd/day)	0.55	0.71	7.11	29.31	20.23	6.03	10.66
	Mean length (mm)± s.d.	389 ± -	322 ± 101.12	384 ± 38.45	407 ± 26.13	427 ± 24.39	467 ± 25.66	412 ± 37.28
	Mean weight (g) ± s.d.	820 ± -	535 ± 473.76	821 ± 231.03	977 ± 198.64	1124 ± 193.17	1507 ± 220.97	1020 ± 267.13
Longnose sucker	Number caught		2		1	1	2	6
	CUE*(No/100 yd/day)		1.33		0.67	0.67	1.33	0.67
	CUE*(Kg/100 yd/day)		0.62		0.97	0.93	1.73	0.71
	Mean length (mm)± s.d.		343 ± 7.07		454 ± -	468 ± -	438 ± 5.66	414 ± 56.27
	Mean weight (g) ± s.d.		465 ± 21.21		1460 ± -	1400 ± -	1295 ± 77.78	1063 ± 469.16

* Total effort for each mesh size was 150 yards of net.

± s.d. = standard deviation.

Table 56. Mesh size effects on yellow perch and burbot catches in Threepoint Lake, 1985.

Species	Parameter	Mesh size (inches) 1.5	2.0	3.0	3.75	4.25	5.0	Total
Yellow perch	Number caught		3	2				5
	CUE*(No/100 yd/day)		2.00	1.33				0.56
	CUE*(Kg/100 yd/day)		0.21	0.29				0.08
	Mean length (mm)± s.d.		186 ± 15.10	239 ± 7.07				207 ± 31.13
	Mean weight (g) ± s.d		103 ± 28.87	215 ± 1 7.07				148 ± 64.58
Burbot	Number caught		1					1
	CUE[1](No/100 yd/day)		0.67					0.11
	CUE[1](Kg/100 yd/day)		0.11					0.02
	Mean length (mm)± s.d.		281 ± -					281 ± -
	Mean weight (g) ± s.d.		160 ± -					160 ± -

* Total effort for each mesh size was 150 yards of net.

± s.d. = standard deviation

Table 57. Mesh size effects on sauger, cisco, yellow perch and burbot catches in Birch Tree Lake, 1985.

Species	Parameter	Mesh size (inches) 1.5	2.0	3.0	3.75	4.25	5.0	Total
Sauger	Number caught		1[1.]	2[2.]				3
	CUE*(No/100 yd/day)		0.50	1.00				0.25
	CUE*(Kg/100 yd/day)		0.16	0.35				0.08
	Mean length (mm)± s.d.		298 ± -	318 ± 28.28				311 ± 23.09
	Mean weight (g) ± s.d.		320 ± -	350 ± 127.28				340 ± 91.65
Cisco	Number caught	3	6	3	6			18
	CUE*(No/100 yd/day)	1.50	3.00	1.50	3.00			1.50
	CUE*(Kg/100 yd/day)	0.10	0.36	0.59	1.34			0.40
	Mean length (mm)± s.d.	185 ± 22.48	215 ± 32.49	305 ± 29.28	313 ± 21.86			257 ± 60.60
	Mean weight (g) ± s.d.	67 ± 30.55	120 ± 80.00	393 ± 133.17	447 ± 89.14			265 ± 187.97
Yellow perch	Number caught			1	1			2
	CUE*(No/100 yd/day)			0.50	0.50			0.17
	CUE*(Kg/100 yd/day)			0.11	0.19			0.05
	Mean length (mm)± s.d.			246 ± -	278 ± -			262 ± 22.63
	Mean weight (g) ± s.d.			220 ± -	380 ± -			300 ± 113.14
Burbot	Number caught	1	1		1			3
	CUE*(No./100 yd/day)	0.50	0.50		0.50			0.25
	CUE*(kg/100 yd/day)	0.05	0.07		0.86			0.16
	Mean length (mm) ± s.d.	290 ± -	268 ± -		590 ± -			383 ± 179.89
	Mean weight (g) ± s.d.	100 ± -	140 ± -		1720 ± -			653 ± 923.98

* Total effort for each mesh size was 200 yards of net.

± s.d. = standard deviation.

1. mat female age 8 years.

2. two mature females - one aged 8 and one aged 12 years old.

Table 58. Mesh size effects on white sucker, longnose sucker and shorthead redhorse sucker catches in Birch Tree Lake, 1985.

Species	Parameter	Mesh size (inches) 1.5	2.0	3.0	3.75	4.25	5.0	Total
White sucker	Number caught	1		4	1	1		7
	CUE*(No/100 yd/day)	0.50		2.00	0.50	0.50		0.58
	CUE*(Kg/100 yd/day)	0.21		1.18	1.02	0.71		0.52
	Mean length (mm)± s.d.	318 ± -		342 ± 48.58	490 ± -	446 ± -		374 ± 74.11
	Mean weight (g) ± s.d.	420 ± -		590 ± 236.36	2040 ± -	1420 ± -		891 ± 626.08
Longnose sucker	Number caught				3	1		4
	CUE*(No/100 yd/day)				1.50	0.50		0.33
	CUE*(Kg/100 yd/day)				1.57	0.34		0.32
	Mean length (mm)± s.d.				427 ± 18.58	360 ± -		410 ± 36.62
	Mean weight (g) ± s.d.				1047 ± 140.48	680 ± -		955 ± 216.26
Shorthead redhorse sucker	Number caught				3	1	3	6
	CUE*(No/100 yd/day)				1.50	0.50	1.50	0.50
	CUE*(Kg/100 yd/day)				1.53	0.57	1.67	0.63
	Mean length (mm)± s.d.				395 ± 74.90	428 ± -	405 ± 38.02	404 ± 49.92
	Mean weight (g) ± s.d.				1020 ± 497.59	1140 ± -	1113 ± 338.43	1077 ± 351.65

* Total effort for each mesh size was 200 yards of net.

± s.d. = standard deviation.

Table 59. Age specific size and maturity conditions for whitefish from Pemichigamau Lake, 1985.

Sex	Age (Years)	Number	Number Mature	% Mature	$\overline{Fl}$ ± s.d. (mm)	$\overline{Wt.}$ ± s.d. (g)	Mean Condition Factor
Males	3	2	1	50	188 ± -	100 ± -	1.50
	5	1	0	0.0	348 ± -	570 ± -	1.35
	6	4	3	75.0	344 ± 66.18	722 ± 415.56	1.60
	7	2	2	100.0	312 ± 70.71	470 ± 325.27	1.41
	8	5	5	100.0	357 ± 58.33	723 ± 386.51	1.45
	9	5	3	60.0	351 ± 54.12	654 ± 331.56	1.39
Total		19	14	73.7	339 ± 64.16	637 ± 352.34	1.46
Females	2	1	0	0.0	152 ± -	60 ± -	1.71
	3	1	0	0.0	206 ± -	140 ± -	1.60
	4	1	0	0.0	186 ± -	80 ± -	1.24
	8	8	5	62.5	375 ± 74.22	885 ± 465.19	1.51
	9	4	4	100.0	346 ± 55.89	658 ± 328.47	1.47
Total		15	9	60.0	329 ± 97.57	666 ± 478.82	1.50
Both	2	1	0	0.0	152 ± -	60 ± -	1.71
	3	3	1	33.3	253 ± 97.41	340 ± 381.58	1.57
	4	1	0	0.0	186 ± -	80 ± -	1.24
	5	1	0	0.0	348 ± -	570 ± -	1.35
	6	4	3	75.0	345 ± 66.18	723 ± 415.56	1.60
	7	2	2	100.0	312 ± 70.71	470 ± 325.27	1.41
	8	13	10	76.9	368 ± 68.73	818 ± 442.53	1.48
	9	9	7	77.8	349 ± 51.40	656 ± 308.91	1.43
Total*		34	23	67.7	334 ± 79.43	650 ± 406.43	1.48

± = standard deviation.

* excludes 2 whitefish of unknown maturity (ages 3 and 4).

Table 60. Age specific size and maturity conditions for whitefish from Costello Lake, 1985.

Sex	Age (Years)	Number	Number Mature	% Mature	$\overline{Fl}$ ± s.d. (mm)	$\overline{Wt.}$ ± s.d. (g)	Mean Condition Factor
Males	3	1	1	100.0	388 ± -	710 ± -	1.84
	7	1	1	100.0	438 ± -	1620 ± -	1.93
	9	1	1	100.0	454 ± -	1900 ± -	2.03
	13	3	3	100.0	449 ± 15.14	1663 ± 166.23	1.84
	14	2	2	100.0	451 ± 12.73	1725 ± 190.92	1.88
	15	1	1	100.0	462 ± -	1780 ± -	1.81
	19	2	2	100.0	439 ± 9.90	1545 ± 205.06	1.82
	20	2	2	100.0	452 ± 16.97	1750 ± 14.14	1.91
	21	1	1	100.0	436 ± -	1580 ± -	1.91
Total		14	14	100.0	440 ± 31.46	1616 ± 296.15	1.87
Females	3	2	1	50.0	342 ± 16.26	695 ± 91.92	1.74
	7	1	1	100.0	428 ± -	1400 ± -	1.79
	13	2	2	100.0	450 ± 12.02	1715 ± 77.78	1.89
	21	1	1	100.0	436 ± -	1440 ± -	1.74
Total		6	5	83.3	408 ± 53.01	1277 ± 472.72	1.80
Both	3	3	2	66.7	340 ± 11.86	700 ± 65.57	1.77
	7	2	2	100.0	433 ± 7.07	1510 ± 155.56	1.86
	9	1	1	100.0	454 ± -	1900 ± -	2.03
	13	5	5	100.0	449 ± 13.32	1684 ± 127.00	1.86
	14	2	2	100.0	451 ± 12.73	1725 ± 190.92	1.88
	15	1	1	100.0	462 ± -	1780 ± -	1.81
	19	2	2	100.0	439 ± 9.90	1545 ± 205.06	1.82
	20	2	2	100.0	452 ± 16.97	1750 ± 14.14	1.91
	21	2	2	100.0	436 ± 0.00	1510 ± 98.99	1.83
Total		20	19	95.0	430 ± 40.51	1514 ± 379.77	1.85

± s.d. = standard deviation.

Table 61. Age specific size and maturity conditions for whitefish from Suwannee Lake, 1985.

Sex	Age (Years)	Number	Number Mature	% Mature	$\overline{Fl}$ ± s.d. (mm)	$\overline{Wt.}$ ± s.d. (g)	Mean Condition Factor
Males	2	2	0	0.0	210 ± 2.12	110 ± 42.43	1.18
	3	1	0	0.0	219 ± -	110 ± -	1.05
	4	5	4	80.0	351 ± 20.61	730 ± 133.23	1.67
	5	1	1	100.0	408 ± -	1180 ± -	1.74
	6	2	2	100.0	410 ± 14.14	1260 ± 56.57	1.83
	7	3	3	100.0	419 ± 13.08	1327 ± 136.14	1.80
	8	3	3	100.0	426 ± 6.51	1377 ± 106.93	1.78
	9	1	1	100.0	440 ± -	1760 ± -	2.07
	13	2	2	100.0	437 ± 16.97	1635 ± 332.34	1.95
	14	1	1	100.0	446 ± -	1630 ± -	1.84
	15	1	1	100.0	437 ± -	1480 ± -	1.77
	16	1	1	100.0	432 ± -	1610 ± -	2.00
	19	1	1	100.0	440 ± -	1460 ± -	1.71
	20	2	2	100.0	428 ± 10.61	1465 ± 346.48	1.87
	21	1	1	100.0	406 ± -	1080 ± -	1.61
	23	2	2	100.0	424 ± 19.80	1365 ± 219.20	1.79
	26	1	1	100.0	433 ± -	1340 ± -	1.65
Total		30	26	86.7	392 ± 68.31	1169 ± 477.94	1.72
Females	2	4	0	0.0	208 ± 6.95	103 ± 30.96	1.12
	4	1	1	100.0	387 ± -	910 ± -	1.65
	7	3	3	100.0	440 ± 8.00	1603 ± 80.83	1.88
	8	1	1	100.0	402 ± -	1040 ± -	1.60
	9	2	2	100.0	466 ± 27.58	1845 ± 261.63	1.82
	11	1	1	100.0	463 ± -	2000 ± -	2.02
	12	1	1	100.0	428 ± -	1420 ± -	1.81
	13	1	1	100.0	457 ± -	1920 ± -	2.01
	14	1	1	100.0	471 ± -	1970 ± -	1.89
	15	3	3	100.0	452 ± 19.08	1553 ± 225.46	1.67
	16	2	2	100.0	465 ± 22.63	1815 ± 417.19	1.79
	17	2	2	100.0	422 ± 28.99	1505 ± 360.62	1.99
	19	2	2	100.0	438 ± 6.36	1340 ± 339.41	1.59
	22	1	1	100.0	450 ± -	1620 ± -	1.78
	26	1	1	100.0	454 ± -	1320 ± -	1.41
Total		26	22	84.6	408 ± 89.78	1350 ± 620.25	1.68
Both	2	6	0	0.0	209 ± 5.59	105 ± 30.82	1.14
	3	1	0	0.0	219 ± -	110 ± -	1.05
	4	6	5	83.3	356 ± 22.04	760 ± 140.00	1.66
	5	1	1	100.0	408 ± -	1180 ± -	1.74
	6	2	2	100.0	410 ± 14.14	1260 ± 56.57	1.83
	7	6	6	100.0	430 ± 15.04	1465 ± 181.63	1.84
	8	4	4	100.0	420 ± 12.97	1292 ± 189.63	1.74
	9	3	3	100.0	458 ± 24.79	1817 ± 191.40	1.90
	11	1	1	100.0	463 ± -	2000 ± -	2.02
	12	1	1	100.0	428 ± -	1420 ± -	1.81
	13	3	3	100.0	444 ± 16.65	1730 ± 286.88	1.97
	14	2	2	100.0	459 ± 17.68	1800 ± 240.42	1.87
	15	4	4	100.0	448 ± 17.29	1535 ± 187.71	1.70
	16	3	3	100.0	454 ± 24.88	1747 ± 317.86	1.86
	17	2	2	100.0	422 ± 28.99	1505 ± 360.62	1.99
	19	3	3	100.0	438 ± 4.73	1380 ± 249.80	1.63
	20	2	2	100.0	428 ± 10.61	1465 ± 346.48	1.87
	21	1	1	100.0	406 ± -	1080 ± -	1.61
	22	1	1	100.0	450 ± -	1620 ± -	1.78
	23	2	2	100.0	424 ± 19.80	1365 ± 219.20	1.79
	26	2	2	100.0	444 ± 14.85	1330 ± 14.14	1.53
Total*		56	48	85.7	399 ± 78.63	1253 ± 550.95	1.70

± s.d. = standard deviation.

* excludes 113 whitefish with unknown sex maturity and age data.

Table 62. Age specific size and maturity conditions for whitefish from Notigi Lake, 1985.

Sex	Age (Years)	Number	Number Mature	% Mature	$\overline{FL}$ ± s.d. (mm)	$\overline{Wt.}$ ± s.d. (g)	Mean Condition Factor
Males	3	2	0	0.0	168 ± 19.80	80 ± 28.28	1.65
	4	1	0	0.0	174 ± -	80 ± -	1.52
	5	2	0	0.0	248 ± 28.28	220 ± 84.85	1.40
	6	7	1	14.3	264 ± 14.53	266 ± 55.03	1.43
	7	11	2	18.2	272 ± 38.10	300 ± 128.37	1.38
	8	16	2	12.5	292 ± 44.13	378 ± 209.36	1.41
	9	6	2	33.3	324 ± 70.06	593 ± 432.79	1.53
	10	1	1	100.0	378 ± -	840 ± -	1.56
	11	2	1	50.0	385 ± 97.58	830 ± 608.11	1.31
Total		48	9	18.8	284 ± 59.42	374 ± 273.89	1.43
Females	3	4	0	0.0	166 ± 14.70	70 ± 20.00	1.51
	5	1	0	0.0	300 ± -	340 ± -	1.26
	6	3	0	0.0	269 ± 67.89	340 ± 240.00	1.49
	7	10	2	20.0	283 ± 32.10	342 ± 142.50	1.44
	8	13	5	38.5	294 ± 27.16	382 ± 106.91	1.47
	9	6	4	66.7	394 ± 52.72	1007 ± 459.86	1.54
	10	1	1	100.0	284 ± -	340 ± -	1.48
	11	1	1	100.0	520 ± -	2460 ± -	1.75
	16	1	1	100.0	500 ± -	2440 ± -	1.95
Total		40	14	35.0	303 ± 81.75	532 ± 552.30	1.49
Both	3	6	0	0.0	167 ± 14.46	73 ± 20.66	1.56
	4	1	0	0.0	174 ± -	80 ± -	1.52
	5	3	0	0.0	265 ± 36.07	260 ± 91.65	1.35
	6	10	1	10.0	265 ± 34.24	288 ± 126.91	1.45
	7	21	4	19.1	278 ± 34.99	320 ± 133.57	1.41
	8	29	7	24.1	293 ± 36.89	379 ± 168.48	1.43
	9	12	6	50.0	359 ± 69.50	800 ± 477.34	1.54
	10	2	2	100.0	331 ± 66.47	590 ± 353.55	1.52
	11	3	2	66.7	430 ± 104.10	1373 ± 1034.67	1.46
	16	1	1	100.0	500 ± -	2440 ± -	1.95
Total		88	23	26.1	292 ± 70.66	446 ± 428.47	1.46

± s.d. = standard deviation.

Table 63. Age specific size and maturity conditions for whitefish from Wapisu Lake, 1985.

Sex	Age (Years)	Number	Number Mature	% Mature	$\overline{Fl}$ ± s.d. (mm)	$\overline{Wt.}$ ± s.d. (g)	Mean Condition Factor
Males	3	1	0	0.0	174 ± -	80 ± -	1.52
	5	3	0	0.0	228 ± 2.00	147 ± 23.09	1.24
	6	3	0	0.0	239 ± 3.06	187 ± 30.55	1.37
	7	1	1	100.0	302 ± -	400 ± -	1.45
	8	9	6	66.7	354 ± 44.39	664 ± 263.02	1.41
	9	1	1	100.0	360 ± -	680 ± -	1.46
	10	1	1	100.0	330 ± -	500 ± -	1.39
	11	1	1	100.0	422 ± -	1140 ± -	1.52
	12	1	1	100.0	430 ± -	880 ± -	1.11
	16	1	1	100.0	454 ± -	1020 ± -	1.09
	17	1	1	100.0	428 ± -	1100 ± -	1.40
Total		23	13	56.5	326 ± 81.59	556 ± 356.80	1.37
Females	4	1	0	0.0	206 ± -	140 ± -	1.60
	5	2	0	0.0	224 ± 33.94	170 ± 70.71	1.47
	6	2	1	50.0	311 ± 1.41	450 ± 42.43	1.50
	7	1	1	100.0	354 ± -	640 ± -	1.44
	8	6	2	33.3	329 ± 48.99	503 ± 268.15	1.31
	10	2	2	100.0	395 ± 13.38	750 ± 14.14	1.23
	13	1	1	100.0	456 ± -	1280 ± -	1.35
	17	1	1	100.0	442 ± -	1120 ± -	1.30
Total		16	8	50.0	331 ± 77.25	559 ± 346.52	1.37
Both	3	1	0	0.0	174 ± -	80 ± -	1.52
	4	1	0	0.0	206 ± -	140 ± -	1.60
	5	5	0	0.0	226 ± 17.17	156 ± 40.99	1.33
	6	5	1	20.0	268 ± 39.68	292 ± 147.38	1.42
	7	2	2	100.0	328 ± 36.77	520 ± 169.71	1.45
	8	15	8	53.3	344 ± 46.36	600 ± 268.12	1.37
	9	1	1	100.0	360 ± -	680 ± -	1.46
	10	3	3	100.0	373 ± 39.72	667 ± 144.68	1.28
	11	1	1	100.0	422 ± -	1140 ± -	1.52
	12	1	1	100.0	430 ± -	880 ± -	1.11
	13	1	1	100.0	456 ± -	1280 ± -	1.35
	16	1	1	100.0	454 ± -	1020 ± -	1.09
	17	2	2	100.0	435 ± 9.90	1110 ± 14.14	1.35
Total		39	21	53.8	328 ± 78.84	557 ± 348.00	1.37

± s.d. = standard deviation.

Table 64. Age specific size and maturity conditions for whitefish from Footprint Lake, 1985.

Sex	Age (Years)	Number	Number Mature	% Mature	$\overline{Fl}$ ± s.d. (mm)	$\overline{Wt.}$ ± s.d. (g)	Mean Condition Factor
Males	2	3	0	0.0	185 ± 22.85	97 ± 32.15	1.48
	3	2	0	0.0	217 ± 29.70	145 ± 35.36	1.43
	4	1	1	100.0	266 ± -	310 ± -	1.65
	5	2	2	100.0	327 ± 9.90	605 ± 7.07	1.74
	6	2	2	100.0	326 ± 2.83	610 ± 127.28	1.76
	8	2	2	100.0	391 ± 11.31	930 ± 28.28	1.56
	15	1	1	100.0	456 ± -	1250 ± -	1.32
Total		13	8	61.5	292 ± 91.05	495 ± 384.57	1.57
Females	2	2	0	0.0	178 ± 4.95	85 ± 7.07	1.52
	3	2	0	0.0	238 ± 59.40	145 ± 35.36	1.18
	4	4	2	50.0	334 ± 82.71	558 ± 235.43	1.54
	5	4	3	75.0	367 ± 62.22	720 ± 110.45	1.54
	6	10	3	30.0	365 ± 16.80	841 ± 119.21	1.71
	7	9	3	33.3	373 ± 24.78	903 ± 200.69	1.71
	8	6	5	83.3	400 ± 27.21	1140 ± 290.86	1.75
	9	3	2	66.7	409 ± 19.22	1143 ± 145.03	1.67
Total		40	18	45.0	357 ± 65.12	810 ± 336.54	1.64
Both	2	5	0	0.0	182 ± 16.90	92 ± 23.87	1.50
	3	4	0	0.0	228 ± 40.21	145 ± 28.87	1.30
	4	5	3	60.0	320 ± 77.82	508 ± 231.99	1.56
	5	6	5	83.3	354 ± 52.67	682 ± 104.20	1.61
	6	12	5	41.7	359 ± 21.61	803 ± 145.55	1.72
	7	9	3	33.3	373 ± 24.78	903 ± 200.69	1.71
	8	8	7	87.5	398 ± 23.78	1088 ± 264.56	1.70
	9	3	2	66.7	409 ± 19.22	1143 ± 145.03	1.67
	15	1	1	100.0	456 ± -	1250 ± -	1.32
Total*		53	26	49.1	341 ± 76.70	732 ± 371.19	1.62

± s.d. = standard deviation.

* excludes 134 whitefish with unknown sex/maturity or age data.

Table 65. Age specific size and maturity conditions for whitefish from Threepoint Lake, 1985.

Sex	Age (Years)	Number	Number Mature	% Mature	$\overline{Fl}$ ± s.d. (mm)	$\overline{Wt.}$ ± s.d. (g)	Mean Condition Factor
Males	4	2	0	0.0	210 ± 31.11	125 ± 35.36	1.35
	5	5	1	20.0	296 ± 37.85	392 ± 196.90	1.42
	6	1	0	0.0	322 ± -	450 ± -	1.35
	7	3	3	100.0	354 ± 18.36	657 ± 137.96	1.46
	8	8	4	50.0	349 ± 30.27	669 ± 196.86	1.53
	9	4	4	100.0	420 ± 38.11	1078 ± 285.47	1.42
	10	1	1	100.0	414 ± -	970 ± -	1.37
	11	1	1	100.0	424 ± -	970 ± -	1.27
	12	1	1	100.0	454 ± -	1200 ± -	1.28
Total		26	15	57.7	348 ± 67.16	670 ± 338.51	1.44
Females	3	2	0	0.0	194 ± 8.49	85 ± 21.21	1.15
	4	4	0	0.0	244 ± 26.41	200 ± 92.38	1.29
	5	2	0	0.0	260 ± 6.36	235 ± 7.07	1.35
	6	6	3	50.0	334 ± 38.91	540 ± 209.00	1.40
	7	4	3	75.0	365 ± 51.89	808 ± 381.35	1.56
	8	5	5	100.0	408 ± 22.01	1002 ± 217.99	1.46
	9	1	1	100.0	444 ± -	1470 ± -	1.68
	11	1	1	100.0	462 ± -	1520 ± -	1.54
	12	1	1	100.0	416 ± -	880 ± -	1.22
Total		26	14	53.8	335 ± 82.02	646 ± 444.38	1.40
Both	3	2	0	0.0	194 ± 8.49	85 ± 21.21	1.15
	4	6	0	0.0	233 ± 30.49	175 ± 82.89	1.31
	5	7	1	14.3	285 ± 35.72	347 ± 178.11	1.40
	6	7	3	42.9	332 ± 35.82	527 ± 193.80	1.39
	7	7	6	85.7	360 ± 38.62	743 ± 292.50	1.52
	8	13	9	69.2	372 ± 39.61	797 ± 258.69	1.51
	9	5	5	100.0	425 ± 34.71	1156 ± 303.20	1.47
	10	1	1	100.0	414 ± -	970 ± -	1.37
	11	2	2	100.0	443 ± 26.87	1245 ± 388.91	1.41
	12	2	2	100.0	435 ± 26.87	1040 ± 226.27	1.25
Total*		52	29	55.8	342 ± 74.51	658 ± 391.31	1.42

± s.d. = standard deviation.

* excludes 6 whitefish with unknown sex/maturity and age data plus 1 age 3 immature whitefish with unknown sex.

Table 66. Age specific size and maturity conditions for whitefish from Birch Tree Lake, 1985.

Sex	Age (Years)	Number	Number Mature	% Mature	$\overline{Fl}$ ± s.d. (mm)	$\overline{Wt.}$ ± s.d. (g)	Mean Condition Factor
Males	3	1	0	0.0	222 ± -	160 ± -	1.46
	4	1	0	0.0	290 ± -	300 ± -	1.23
	5	1	1	100.0	274 ± -	260 ± -	1.26
	7	5	5	100.0	366 ± 26.23	824 ± 221.54	1.65
	8	5	5	100.0	352 ± 23.54	724 ± 207.56	1.63
	9	1	1	100.0	376 ± -	1040 ± -	1.96
	10	1	1	100.0	432 ± -	1520 ± -	1.89
Total		15	13	86.7	346 ± 52.87	735 ± 364.85	1.61
Females	2	1	0	0.0	158 ± -	40 ± -	1.01
	4	1	0	0.0	250 ± -	200 ± -	1.28
	5	2	1	50.0	283 ± 29.70	380 ± 141.42	1.64
	7	7	6	85.7	337 ± 20.65	586 ± 129.98	1.51
	8	6	5	83.3	383 ± 40.41	890 ± 269.15	1.55
	9	1	1	100.0	408 ± -	1140 ± -	1.68
	12	1	0	0.0	440 ± -	1420 ± -	1.67
Total		19	13	68.4	341 ± 68.69	684 ± 364.33	1.51
Both	2	1	0	0.0	158 ± -	40 ± -	1.01
	3	1	0	0.0	222 ± -	160 ± -	1.46
	4	2	0	0.0	270 ± 28.28	250 ± 70.71	1.26
	5	3	2	66.7	280 ± 21.63	340 ± 121.66	1.51
	7	12	11	91.7	349 ± 26.61	685 ± 205.23	1.57
	8	11	10	90.9	369 ± 35.98	815 ± 246.92	1.59
	9	2	2	100.0	392 ± 22.63	1090 ± 70.71	1.82
	10	1	1	100.0	432 ± -	1520 ± -	1.89
	12	1	0	0.0	440 ± -	1420 ± -	1.67
Total		34	26	76.5	343 ± 61.36	706 ± 359.890	1.56

± s.d. = standard deviation.

Table 67. Age specific size and maturity conditions for walleye from Pemichigamau Lake, 1985.

Sex	Age (Years)	Number	Number Mature	% Mature	$\overline{Fl}$ ± s.d. (mm)	$\overline{Wt.}$ ± s.d. (g)	Mean Condition Factor
Males	2	1	0	0.0	180 ± -	50 ± -	0.86
	4	6	0	0.0	231 ± 18.95	108 ± 33.71	0.85
	5	5	0	0.0	268 ± 57.50	218 ± 154.50	0.97
	6	3	0	0.0	301 ± 22.12	290 ± 52.92	1.06
	9	4	1	25.0	326 ± 25.97	340 ± 78.74	0.97
	10	6	6	100.0	361 ± 30.63	510 ± 158.11	1.05
	11	4	4	100.0	363 ± 14.91	505 ± 45.09	1.06
	12	8	7	87.5	374 ± 25.23	594 ± 147.55	1.12
	13	9	9	100.0	386 ± 23.50	622 ± 103.78	1.08
	14	1	1	100.0	400 ± -	660 ± -	1.03
	15	8	8	100.0	411 ± 25.32	776 ± 134.16	1.11
	18	1	1	100.0	484 ± -	1230 ± -	1.08
	19	1	1	100.0	444 ± -	980 ± -	1.12
	21	1	1	100.0	428 ± -	920 ± -	1.17
	22	3	3	100.0	424 ± 82.16	1113 ± 308.27	1.61
	23	2	2	100.0	413 ± 97.58	1200 ± 0.00	2.01
	25	1	1	100.0	518 ± -	1480 ± -	1.06
Total		64	45	70.3	357 ± 74.36	573 ± 335.13	1.10
Females	2	2	0	0.0	172 19.09	40 ± 14.14	0.78
	3	3	0	0.0	193 ± 40.07	87 ± 46.19	1.17
	4	7	0	0.0	234 ± 16.60	120 ± 19.15	0.93
	5	2	0	0.0	325 ± 67.88	390 ± 254.56	1.05
	6	7	0	0.0	306 ± 35.45	291 ± 97.03	0.98
	9	1	0	0.0	354 ± -	510 ± -	1.15
	10	11	2	18.2	375 ± 31.00	576 ± 184.27	1.06
	11	13	3	23.1	390 ± 27.33	658 ± 149.43	1.09
	12	17	4	23.5	401 ± 30.90	733 ± 175.10	1.12
	13	21	10	47.6	407 ± 37.11	778 ± 232.71	1.12
	14	7	7	100.0	403 ± 36.99	740 ± 171.27	1.12
	15	2	1	50.0	489 ± 26.87	1380 ± 226.27	1.18
	16	2	1	50.0	446 ± 33.94	960 ± 183.85	1.08
	18	4	4	100.0	519 ± 11.59	1483 ± 196.02	1.06
	19	9	9	100.0	537 ± 19.81	1670 ± 183.64	1.08
	20	4	4	100.0	522 ± 55.86	1705 ± 643.20	1.15
	21	2	2	100.0	545 ± 21.21	1760 ± 311.13	1.08
	22	7	7	100.0	509 ± 28.30	1440 ± 230.93	1.08
	24	3	3	100.0	512 ± 10.39	1497 ± 101.16	1.11
	25	3	3	100.0	562 ± 20.30	1983 ± 170.39	1.12
Total		127	60	47.2	408 ± 95.84	863 ± 536.40	1.08
Both	2	3	0	0.0	174 ± 14.36	43 ± 11.55	0.80
	3	3	0	0.0	193 ± 40.07	87 ± 46.19	1.17
	4	13	0	0.0	233 ± 17.02	115 ± 26.34	0.90
	5	7	0	0.0	284 ± 61.12	267 ± 183.73	0.99
	6	10	0	0.0	304 ± 30.87	291 ± 83.06	1.00
	9	5	1	20.0	332 ± 25.74	374 ± 102.13	1.01
	10	17	8	47.1	370 ± 30.77	553 ± 160.46	1.06
	11	17	7	41.2	384 ± 27.29	622 ± 147.08	1.08
	12	25	11	44.0	392 ± 31.42	688 ± 176.58	1.12
	13	30	19	63.3	401 ± 34.66	731 ± 213.54	1.11
	14	8	8	100.0	403 ± 34.26	730 ± 161.07	1.11
	15	10	9	90.0	427 ± 40.62	897 ± 290.67	1.12
	16	2	1	50.0	446 ± 33.94	960 ± 183.85	1.08
	18	5	5	100.0	512 ± 18.50	1432 ± 203.89	1.06
	19	10	10	100.0	528 ± 34.96	1601 ± 278.55	1.08
	20	4	4	100.0	522 ± 55.86	1705 ± 643.20	1.15
	21	3	3	100.0	506 ± 69.20	1480 ± 532.34	1.11
	22	10	10	100.0	484 ± 61.04	1342 ± 296.64	1.24
	23	2	2	100.0	413 ± 97.58	1200 ± 0.00	2.01
	24	3	3	100.0	512 ± 10.39	1497 ± 101.16	1.11
	25	4	4	100.0	551 ± 27.34	1858 ± 287.56	1.11
Total[a]		191	105	55.0	389 ± 94.39	760 ± 500.21	1.08

± s.d. = standard deviation.

[a] excludes two immature 2 year olds of unknown sex plus 20 walleye with unknown sex, maturity or age data.

Table 68. Age specific size and maturity conditions for walleye from Costello Lake, 1985.

Sex	Age (Years)	Number	Number Mature	% Mature	$\overline{FL} \pm$ s.d. (mm)	$\overline{Wt.} \pm$ s.d. (g)	Mean Condition Factor
Males	6	1	1	100.0	412 ± -	800 ± -	1.14
	11	3	3	100.0	415 ± 6.43	753 ± 58.59	1.05
	12	5	5	100.0	434 ± 6.72	916 ± 85.62	1.12
	13	2	2	100.0	456 ± 23.33	970 ± 141.42	1.02
	14	1	1	100.0	442 ± -	960 ± -	1.11
	15	1	1	100.0	460 ± -	1070 ± -	1.10
	16	1	1	100.0	410 ± -	890 ± -	1.29
	17	1	1	100.0	454 ± -	940 ± -	1.00
	19	3	3	100.0	439 ± 9.24	943 ± 96.09	1.12
	20	1	1	100.0	468 ± -	1110 ± -	1.08
	21	1	1	100.0	430 ± -	900 ± -	1.13
	22	3	3	100.0	454 ± 19.14	950 ± 127.67	1.01
	23	1	1	100.0	488 ± -	1170 ± -	1.01
	24	4	4	100.0	455 ± 9.14	972 ± 71.82	1.04
	25	1	1	100.0	460 ± -	1170 ± -	1.20
Total		29	29	100.0	443 ± 20.33	943 ± 121.28	1.08
Females	6	1	0	0.0	402 ± -	800 ± -	1.23
	12	11	11	100.0	474 ± 23.86	1075 ± 151.62	1.00
	13	7	7	100.0	482 ± 23.90	1163 ± 141.51	1.04
	14	1	1	100.0	490 ± -	1200 ± -	1.02
	15	1	1	100.0	482 ± -	1120 ± -	1.00
	19	2	2	100.0	485 ± 16.26	1100 ± 113.14	0.96
	22	1	1	100.0	577 ± -	1800 ± -	0.94
Total		24	23	95.8	480 ± 33.22	1129 ± 205.12	1.02
Both	6	2	1	50.0	407 ± 7.07	800 ± 0.00	1.19
	11	3	3	100.0	415 ± 6.43	753 ± 58.59	1.05
	12	16	16	100.0	462 ± 27.65	1026 ± 152.01	1.04
	13	9	9	100.0	476 ± 24.90	1120 ± 157.32	1.03
	14	2	2	100.0	466 ± 33.94	1080 ± 169.71	1.07
	15	2	2	100.0	471 ± 15.56	1095 ± 35.36	1.05
	16	1	1	100.0	410 ± -	890 ± -	1.29
	17	1	1	100.0	454 ± -	940 ± -	1.00
	19	5	5	100.0	457 ± 27.69	1006 ± 123.21	1.05
	20	1	1	100.0	468 ± -	1110 ± -	1.08
	21	1	1	100.0	430 ± -	900 ± -	1.13
	22	4	4	100.0	485 ± 63.29	1163 ± 437.60	0.99
	23	1	1	100.0	488 ± -	1170 ± -	1.01
	24	4	4	100.0	455 ± 9.14	973 ± 71.82	1.04
	25	1	1	100.0	460 ± -	1170 ± -	1.20
Total*		53	52	98.1	460 ± 32.38	1027 ± 187.62	1.05

± s.d. = standard deviation.

* excludes 68 walleye with unknown sex/maturity and age data.

Table 69. Age specific size and maturity conditions for walleye from Suwannee Lake, 1985.

Sex	Age (Years)	Number	Number Mature	% Mature	$\overline{FL}$ ± s.d. (mm)	$\overline{Wt.}$ ± s.d. (g)	Mean Condition Factor
Males	2	2	0	0.0	268 ± 17.68	105 ± 63.64	0.84
	6	2	2	100.0	403 ± 8.49	730 ± 14.14	1.15
	10	2	2	100.0	433 ± 15.56	930 ± 84.85	1.17
	11	2	2	100.0	432 ± 6.36	940 ± 84.85	1.17
	12	2	2	100.0	463 ± 7.07	1225 ± 148.49	1.24
Total		10	8	80.0	400 ± 72.99	806 ± 379.65	1.11
Females	2	4	0	0.0	267 ± 15.44	205 ± 46.55	1.07
	3	1	0	0.0	266 ± -	200 ± -	1.06
	4	1	0	0.0	380 ± -	590 ± - 67	1.08
	6	3	2	66.7	417 ± 10.15	860 ± 95.39	1.18
	10	4	4	100.0	488 ± 12.15	1342 ± 99.79	1.16
	11	3	3	100.0	494 ± 11.27	1293 ± 155.03	1.07
	12	2	2	100.0	524 ± 11.31	1675 ± 106.07	1.16
	13	3	3	100.0	492 ± 23.76	1317 ± 260.83	1.09
	14	1	1	100.0	501 ± -	1380 ± -	1.10
	21	1	1	100.0	498 ± -	1330 ± -	1.08
Total		23	16	69.6	431 ± 96.26	1020 ± 514.73	1.11
Both	2	6	0	0.0	267 ± 14.34	192 ± 50.37	0.99
	3	1	0	0.0	266 ± -	200 ± -	1.06
	4	1	0	0.0	380 ± -	590 ± -	1.08
	6	5	4	80.0	411 ± 11.33	816 ± 90.72	1.17
	10	6	6	100.0	469 ± 30.48	1212 ± 220.22	1.16
	11	5	5	100.0	469 ± 35.29	1152 ± 226.43	1.11
	12	4	4	100.0	494 ± 36.05	1450 ± 280.36	1.20
	13	3	3	100.0	492 ± 23.76	1317 ± 260.83	1.09
	14	1	1	100.0	501 ± -	1380 ± -	1.10
	21	1	1	100.0	498 ± -	1330 ± -	1.08
Total*		33	24	72.7	422 ± 89.93	955 ± 482.31	1.11

± s.d. = standard deviation.

* excludes one 2 year old walleye with unknown sex and maturity.

Table 70. Age specific size and maturity conditions for walleye from Notigi Lake, 1985.

Sex	Age (Years)	Number	Number Mature	% Mature	$\overline{FL}$ ± s.d. (mm)	$\overline{Wt.}$ ± s.d. (g)	Mean Condition Factor
Males	2	1	0	0.0	166 ± -	60 ± -	1.31
	3	1	0	0.0	180 ± -	40 ± -	0.69
	6	1	0	0.0	340 ± -	460 ± -	1.17
	7	1	0	0.0	310 ± -	340 ± -	1.14
	8	1	1	100.0	380 ± -	640 ± -	1.17
Total		5	1	20.0	275 ± -	308 ± -	1.10
Females	2	1	0	0.0	190 ± -	60 ± -	0.87
	4	2	0	0.0	274 ± 36.77	210 ± 70.71	1.01
	5	1	0	0.0	374 ± -	640 ± -	1.22
	6	1	0	0.0	366 ± -	560 ± -	1.14
	8	1	0	0.0	400 ± -	740 ± -	1.16
	9	3	1	33.3	393 ± 17.24	753 ± 102.63	1.24
	10	4	3	75.0	431 ± 21.20	945 ± 222.93	1.17
	12	2	2	100.0	507 ± 46.67	1600 ± 367.70	1.22
	13	1	1	100.0	502 ± -	1620 ± -	1.28
	17	1	1	100.0	432 ± -	780 ± -	0.97
	19	2	2	100.0	535 ± 4.24	1800 ± 0.00	1.18
	21	1	1	100.0	554 ± -	2000 ± -	1.18
Total		20	11	55.0	418 ± 96.10	983 ± 582.85	1.15
Both	2	2	0	0.0	178 ± 16.97	60 ± 0.00	1.09
	3	1	0	0.0	180 ± -	40 ± -	0.69
	4	2	0	0.0	274 ± 36.77	210 ± 70.71	1.01
	5	1	0	0.0	374 ± -	640 ± -	1.22
	6	2	0	0.0	353 ± 18.38	510 ± 70.71	1.16
	7	1	0	0.0	310 ± -	340 ± -	1.14
	8	2	1	50.0	390 ± 14.14	690 ± 70.71	1.17
	9	3	1	33.3	393 ± 17.24	753 ± 102.63	1.24
	10	4	3	75.0	431 ± 21.20	945 ± 222.93	1.17
	12	2	2	100.0	507 ± 46.67	1600 ± 367.70	1.22
	13	1	1	100.0	502 ± -	1620 ± -	1.28
	17	1	1	100.0	432 ± -	780 ± -	0.97
	19	2	2	100.0	535 ± 4.24	1800 ± 0.00	1.18
	21	1	1	100.0	554 ± -	2000 ± -	1.18
Total		25	12	48.0	389 ± 110.67	848 ± 596.69	1.14

± s.d. = standard deviation.

Table 71. Age specific size and maturity conditions for walleye from Wapisu Lake, 1985.

Sex	Age (Years)	Number	Number Mature	% Mature	$\overline{Fl}$ ± s.d. (mm)	$\overline{Wt.}$ ± s.d. (g)	Mean Condition Factor
Males	2	2	0	0.0	185 ± 18.38	90 ± 14.14	1.43
	3	2	0	0.0	223 ± 52.33	130 ± 70.71	1.13
	4	5	0	0.0	213 ± 7.43	116 ± 16.73	1.20
	6	2	0	0.0	265 ± 7.07	210 ± 14.14	1.13
	7	1	0	0.0	266 ± -	220 ± -	1.17
	9	2	0	0.0	289 ± 7.07	270 ± 14.14	1.12
	10	2	1	50.0	322 ± 2.83	360 ± 0.00	1.08
	11	3	2	66.7	360 ± 76.86	380 ± 91.65	0.88
	12	5	5	100.0	361 ± 35.79	536 ± 155.18	1.12
	13	4	4	100.0	375 ± 41.97	620 ± 176.64	1.16
	14	1	1	100.0	316 ± -	340 ± -	1.08
	15	3	3	100.0	388 ± 15.87	580 ± 72.11	0.99
	16	3	3	100.0	388 ± 26.91	667 ± 130.13	1.13
	18	1	1	100.0	412 ± -	740 ± -	1.06
	20	1	1	100.0	382 ± -	600 ± -	1.08
	23	1	1	100.0	422 ± -	820 ± -	1.09
	28	1	1	100.0	456 ± -	1020 ± -	1.08
Total		39	23	59.0	323 ± 80.33	423 ± 253.32	1.12
Females	2	1	0	0.0	184 ± -	80 ± -	1.28
	3	2	0	0.0	197 ± 55.15	80 ± 56.57	0.96
	4	6	0	0.0	218 ± 15.46	112 ± 20.41	1.09
	5	1	0	0.0	246 ± -	180 ± -	1.21
	6	2	0	0.0	291 ± 15.56	260 ± 56.57	1.05
	9	3	1	33.3	372 ± 64.37	587 ± 277.37	1.07
	10	3	1	33.3	357 ± 37.81	560 ± 222.71	1.18
	11	7	1	14.3	354 ± 27.14	490 ± 128.45	1.08
	12	22	15	68.2	401 ± 44.00	711 ± 203.74	1.09
	13	5	4	80.0	404 ± 36.69	748 ± 183.63	1.12
	14	5	5	100.0	423 ± 19.01	780 ± 114.02	1.03
	15	2	2	100.0	393 ± 1.41	620 ± 28.28	1.03
	16	1	1	100.0	454 ± -	960 ± -	1.03
	18	3	3	100.0	487 ± 60.21	1393 ± 511.60	1.18
	19	4	4	100.0	475 ± 48.95	1195 ± 379.61	1.09
	21	1	1	100.0	490 ± -	1220 ± -	1.04
Total		68	38	55.9	374 ± 85.78	649 ± 372.84	1.09
Both	2	3	0	0.0	185 ± 13.01	87 ± 11.55	1.38
	3	4	0	0.0	210 ± 46.39	105 ± 59.72	1.05
	4	11	0	0.0	215 ± 12.17	114 ± 18.04	1.14
	5	1	0	0.0	246 ± -	180 ± -	1.21
	6	4	0	0.0	278 ± 17.96	235 ± 44.35	1.09
	7	1	0	0.0	266 ± -	220 ± -	1.17
	9	5	1	20.0	339 ± 64.43	460 ± 261.92	1.09
	10	5	2	40.0	343 ± 33.03	480 ± 191.83	1.14
	11	10	3	30.0	356 ± 42.36	457 ± 125.26	1.02
	12	27	20	74.1	394 ± 44.82	679 ± 205.05	1.09
	13	9	8	88.9	391 ± 39.59	691 ± 181.96	1.14
	14	6	6	100.0	405 ± 46.80	707 ± 206.56	1.04
	15	5	5	100.0	390 ± 11.58	596 ± 57.27	1.01
	16	4	4	100.0	405 ± 39.64	740 ± 181.11	1.11
	18	4	4	100.0	468 ± 61.73	1230 ± 330.28	1.15
	19	4	4	100.0	475 ± 48.95	1195 ± 379.61	1.09
	20	1	1	100.0	382 ± -	600 ± -	1.08
	21	1	1	100.0	490 ± -	1220 ± -	1.04
	23	1	1	100.0	422 ± -	820 ± -	1.09
	28	1	1	100.0	456 ± -	1020 ± -	1.08
Total		107	61	57.0	355 ± 87.00	567 ± 350.54	1.10

± s.d. = standard deviation.

Table 72. Age specific size and maturity conditions for walleye from Footprint Lake, 1985.

Sex	Age (Years)	Number	Number Mature	% Mature	$\overline{FL} \pm$ s.d. (mm)	$\overline{Wt.} \pm$ s.d. (g)	Mean Condition Factor
Males	2	12	3	25.0	164 ± 7.30	48 ± 11.15	1.09
	3	2	0	0.0	198 ± 55.86	90 ± 56.57	1.13
	4	3	0	0.0	231 ± 22.50	137 ± 315.12	1.09
	5	1	1	100.0	272 ± -	190 ± -	0.94
	7	1	0	0.0	346 ± -	480 ± -	1.16
	10	1	1	100.0	380 ± -	550 ± - 4	1.00
	11	2	1	50.0	336 ± 6.36	395 ± 91.92	1.03
	13	1	1	100.0	338 ± -	370 ± -	0.96
	14	2	1	50.0	429 ± 9.19	795 ± 106.07	1.01
	18	1	1	100.0	458 ± -	1020 ± -	1.06
Total		26	9	34.6	245 ± 101.27	237 ± 282.13	1.07
Females	-	12	0	0.0	171 ± 8.31	60 ± 14.15	1.20
	3	2	0	0.0	203 ± 53.03	95 ± 63.64	1.06
	4	8	0	0.0	251 ± 44.11	179 ± 93.44	1.07
	5	1	0	0.0	272 ± -	210 ± -	1.04
	10	2	2	100.0	433 ± 27.58	720 ± 70.71	0.89
	11	1	1	100.0	465 ± -	990 ± -	0.98
	12	1	1	100.0	444 ± -	760 ± -	0.87
	13	2	1	50.0	345 ± 159.81	345 ± 572.76	1.06
	19	1	1	100.0	417 ± -	680 ± -	0.94
Total		30	6	20.0	254 ± 105.10	250 ± 295.44	1.09
Both	2	24	3	12.5	167 ± 8.39	54 ± 13.82	1.15
	3	4	0	0.0	200 ± 44.56	92 ± 49.24	1.09
	4	11	0	0.0	246 ± 39.36	168 ± 82.20	1.07
	5	2	1	50.0	272 ± 0.00	200 ± 14.14	0.99
	7	1	0	0.0	346 ± -	480 ± -	1.16
	10	3	3	100.0	415 ± 36.04	663 ± 110.15	0.93
	11	3	2	66.7	379 ± 74.33	593 ± 349.62	1.01
	12	1	1	100.0	444 ± -	760 ± -	0.87
	13	3	2	66.7	343 ± 113.07	487 ± 417.41	1.02
	14	2	1	50.0	429 ± 9.19	795 ± 106.07	1.01
	18	1	1	100.0	458 ± -	1020 ± -	1.06
	19	1	1	100.0	417 ± -	680 ± -	0.94
Total*		56	15	26.8	250 ± 102.49	244 ± 286.79	1.08

± s.d. = standard deviation.

* excludes 7 walleye with unknown sex/maturity and age data.

Table 73. Age specific size and maturity conditions for walleye from Threepoint Lake, 1985.

Sex	Age (Years)	Number	Number Mature	% Mature	$\overline{Fl}$ ± s.d. (mm)	$\overline{Wt.}$ ± s.d. (g)	Mean Condition Factor
Males	2	1	0	0.0	180 ± -	60 ± -	1.03
	3	2	0	0.0	193 ± 4.24	65 ± 7.07	0.90
	4	2	0	0.0	230 ± 15.56	120 ± 14.14	0.99
	9	4	2	50.0	334 ± 30.38	405 ± 110.30	1.08
	11	2	1	50.0	360 ± 43.13	525 ± 148.49	1.12
	12	6	6	100.0	382 ± 14.36	602 ± 89.76	1.07
	14	1	1	100.0	380 ± -	600 ± -	1.09
	18	1	1	100.0	385 ± -	530 ± -	0.93
Total		19	11	57.9	323 ± 77.71	413 ± 226.71	1.04
Females	1	1	0	0.0	125 ± -	20 ± -	1.02
	2	3	0	0.0	171 ± 9.50	53 ± 5.77	1.06
	3	2	0	0.0	222 ± 8.49	110 ± 14.14	1.00
	4	5	0	0.0	226 ± 11.12	116 ± 15.17	1.00
	5	1	0	0.0	243 ± -	160 ± -	1.12
	6	3	0	0.0	305 ± 27.74	310 ± 81.85	1.08
	8	1	0	0.0	382 ± -	610 ± -	1.09
	9	8	2	25.0	351 ± 20.38	476 ± 82.28	1.10
	10	1	0	0.0	402 ± -	730 ± -	1.12
	11	4	2	50.0	399 ± 70.95	720 ± 383.32	1.05
	12	2	1	50.0	437 ± 63.64	950 ± 367.70	1.12
	13	3	3	100.0	448 ± 11.50	983 ± 102.14	1.09
	15	4	4	100.0	482 ± 63.06	1302 ± 445.07	1.13
	19	1	1	100.0	490 ± -	1170 ± -	0.99
	22	1	1	100.0	535 ± -	1430 ± -	0.93
Total		40	14	35.0	343 ± 112.12	569 ± 464.53	1.07
Both	1	1	0	0.0	125 ± -	20 ± -	1.02
	2	4	0	0.0	174 ± 8.89	55 ± 5.77	1.06
	3	4	0	0.0	208 ± 17.62	88 ± 27.54	0.95
	4	7	0	0.0	227 ± 11.27	117 ± 13.80	1.00
	5	1	0	0.0	243 ± -	160 ± -	1.12
	6	3	0	0.0	305 ± 27.74	310 ± 81.85	1.08
	8	1	0	0.0	382 ± -	610 ± -	1.09
	9	12	4	33.3	345 ± 24.21	452 ± 94.11	1.09
	10	1	0	0.0	402 ± -	730 ± -	1.12
	11	6	3	50.0	386 ± 61.76	655 ± 320.48	1.08
	12	8	7	87.5	396 ± 37.02	689 ± 225.99	1.08
	13	3	3	100.0	448 ± 11.50	983 ± 102.14	1.09
	14	1	1	100.0	380 ± -	600 ± -	1.09
	15	4	4	100.0	483 ± 63.06	1302 ± 445.07	1.13
	18	1	1	100.0	385 ± -	530 ± -	0.93
	19	1	1	100.0	490 ± -	1170 ± -	0.99
	22	1	1	100.0	535 ± -	1430 ± -	0.93
Total		59	24	42.4	337 ± 102.06	519 ± 408.02	1.06

± s.d. standard deviation.

Table 74. Age specific size and maturity conditions for walleye from Birch Tree Lake, 1985.

Sex	Age (Years)	Number	Number Mature	% Mature	$\overline{FL}$ ± s.d. (mm)	$\overline{Wt.}$ ± s.d. (g)	Mean Condition Factor
Males	1	1	0	0.0	192 ± -	60 ± -	0.85
	2	1	0	0.0	196 ± -	100 ± -	1.33
	4	1	0	0.0	222 ± -	120 ± -	1.10
	5	1	0	0.0	222 ± -	120 ± -	1.10
	10	1	0	0.0	334 ± -	360 ± -	0.97
	19	1	1	100.0	392 ± -	740 ± -	1.23
	25	1	1	100.0	442 ± -	940 ± -	1.09
Total		7	2	28.6	286 ± 102.47	348 ± 354.19	1.10
Females	4	1	0	0.0	260 ± -	180 ± -	1.02
	6	2	0	0.0	270 ± 14.14	200 ± 56.57	1.00
	8	1	0	0.0	320 ± -	300 ± -	0.92
	9	1	0	0.0	296 ± -	340 ± -	1.31
	12	1	1	100.0	384 ± -	640 ± -	1.13
	14	1	1	100.0	422 ± -	840 ± -	1.12
	18	1	1	100.0	534 ± -	1580 ± -	1.04
	29	1	1	100.0	486 ± -	1300 ± -	1.13
Total		9	4	44.4	360 ± 101.65	620 ± 520.00	1.07
Both	1	1	0	0.0	192 ± -	60 ± -	0.85
	2	1	0	0.0	196 ± -	100 ± -	1.33
	4	2	0	0.0	241 ± 26.87	150 ± 42.43	1.06
	5	1	0	0.0	222 ± -	120 ± -	1.10
	6	2	0	0.0	270 ± 14.14	200 ± 56.57	1.00
	8	1	0	0.0	320 ± -	300 ± -	0.92
	9	1	0	0.0	296 ± -	340 ± -	1.31
	10	1	0	0.0	334 ± -	360 ± -	0.97
	12	1	1	100.0	384 ± -	640 ± -	1.13
	14	1	1	100.0	422 ± -	840 ± -	1.12
	18	1	1	100.0	534 ± -	1580 ± -	1.04
	19	1	1	100.0	392 ± -	740 ± -	1.23
	25	1	1	100.0	442 ± -	940 ± -	1.09
	29	1	1	100.0	486 ± -	1300 ± -	1.13
Total		16	6	37.5	328 ± 105.68	501 ± 462.31	1.08

± s.d. standard deviation.

* excludes 1 immature female walleye of unknown age.

Table 75. Age specific size and maturity conditions for sauger from Wapisu Lake, 1985.

Sex	Age (Years)	Number	Number Mature	% Mature	$\overline{Fl}$ ± s.d. (mm)	$\overline{Wt.}$ ± s.d. (g)	Mean Condition Factor
Males	4	1	0	0.0	194 ± -	80 ± -	1.10
	8	1	1	100.0	264 ± -	180 ± -	0.98
	9	4	4	100.0	260 ± 25.14	175 ± 34.16	1.00
	10	1	1	100.0	290 ± -	240 ± -	0.98
	12	2	2	100.0	294 ± 5.66	240 ± 28.28	0.95
	13	1	1	100.0	342 ± -	380 ± -	0.95
	15	2	2	100.0	313 ± 18.38	310 ± 42.43	1.01
Total		12	11	91.7	279 ± 40.46	223 ± 84.35	0.99
Females	4	2	0	0.0	210 ± 31.11	90 ± 42.43	0.93
	9	2	1	50.0	243 ± 12.73	140 ± 28.28	0.97
	10	1	1	100.0	256 ± -	180 ± -	1.07
	11	1	1	100.0	316 ± -	280 ± -	0.89
	12	1	1	100.0	284 ± -	180 ± -	0.98
	14	1	0	0.0	330 ± -	360 ± -	1.00
	15	1	1	100.0	332 ± -	340 ± -	0.93
	16	1	1	100.0	308 ± -	260 ± -	0.89
Total		10	6	60.0	271 ± 48.32	206 ± 99.80	0.96
Both	4	3	0	0.0	205 ± 23.86	87 ± 30.55	0.99
	8	1	1	100.0	264 ± -	180 ± -	0.98
	9	6	5	83.3	254 ± 22.11	163 ± 34.45	0.99
	10	2	2	100.0	273 ± 24.04	210 ± 42.43	1.03
	11	1	1	100.0	316 ± -	280 ± -	0.89
	12	3	3	100.0	284 ± 17.78	220 ± 40.00	0.96
	13	1	1	100.0	342 ± -	380 ± -	0.95
	14	1	0	0.0	330 ± -	360 ± -	1.00
	15	3	3	100.0	319 ± 17.01	320 ± 34.64	0.98
	16	1	1	100.0	308 ± -	260 ± -	0.89
Total		22	17	77.3	275 ± 43.27	215 ± 89.85	0.98

± s.d. standard deviation.

Table 76. Age specific size and maturity conditions for sauger from Threepoint Lake, 1985.

Sex	Age (Years)	Number	Number Mature	% Mature	$\overline{Fl}$ ± s.d. (mm)	$\overline{Wt.}$ ± s.d. (g)	Mean Condition Factor
Males	8	1	1	100.0	308 ± -	280 ± -	0.96
	9	3	3	100.0	287 ± 26.63	207 ± 40.41	0.87
	15	2	2	100.0	352 ± 16.26	405 ± 49.50	0.93
	16	1	1	100.0	332 ± -	370 ± -	1.01
	19	1	1	100.0	346 ± -	370 ± -	0.89
Total		8	8	100.0	319 ± 33.56	306 ± 95.46	0.92
Females	9	1	0	0.0	278 ± -	170 ± -	0.79
	10	1	1	100.0	304 ± -	270 ± -	0.96
	11	1	1	100.0	340 ± -	370 ± -	0.94
	12	1	1	100.0	284 ± -	220 ± -	0.96
	15	1	1	100.0	358 ± -	390 ± -	0.85
Total		5	4	80.0	313 ± -	284 ± -	0.90
Both	8	1	1	100.0	308 ± -	280 ± -	0.96
	9	4	3	75.0	285 ± 22.20	198 ± 37.75	0.85
	10	1	1	100.0	304 ± -	270 ± -	0.96
	11	1	1	100.0	340 ± -	370 ± -	0.94
	12	1	1	100.0	284 ± -	220 ± -	0.96
	15	3	3	100.0	354 ± 12.10	400 ± 36.06	0.90
	16	1	1	100.0	332 ± -	370 ± -	1.01
	19	1	1	100.0	346 ± -	370 ± -	0.89
Total		13	12	92.3	316 ± 32.78	298 ± 91.85	0.91

± s.d. standard deviation.

Table 77. Age specific size and maturity conditions for northern pike from Pemichigamau Lake, 1985.

Sex	Age (Years)	Number	Number Mature	% Mature	$\overline{FL}$ ± s.d. (mm)	$\overline{Wt.}$ ± s.d. (g)	Mean Condition Factor
Males	1	1	0	0.0	230 ± -	70 ± -	0.58
	2	1	0	0.0	241 ± -	70 ± -	0.50
	3	1	0	0.0	339 ± -	250 ± -	0.64
	4	3	3	100.0	374 ± 52.54	360 ± 121.66	0.67
	5	1	1	100.0	380 ± -	330 ± -	0.60
	6	2	2	100.0	442 ± 16.97	585 ± 134.35	0.68
	7	2	1	0.0	624 ± 40.31	1315 ± 799.03	0.52
	8	3	3	100.0	716 ± 83.64	2657 ± 831.28	0.71
	9	5	5	100.0	692 ± 68.73	2428 ± 954.00	0.70
	10	8	8	100.0	710 ± 48.81	2634 ± 644.03	0.73
	12	2	2	100.0	821 ± 57.98	4260 ± 1187.94	0.76
	13	1	1		812 ± -	4020 ± -	0.75
	14	1	1		828 ± -	5000 ± -	0.88
Total		31	27	87.1	613 ± 183.89	2075 ± 1470.61	0.69
Females	3	1	0	0.0	322 ± -	200 ± -	0.60
	5	1	0	0.0	404 ± -	400 ± -	0.61
	6	4	4	100.0	613 ± 93.10	1752 ± 717.93	0.72
	7	4	3	75.0	610 ± 69.42	1590 ± 480.69	0.69
	8	13	13	100.0	671 ± 48.92	2192 ± 529.28	0.71
	9	12	12	100.0	721 ± 47.03	2947 ± 608.01	0.78
	10	5	5	100.0	775 ± 81.91	3860 ± 1435.18	0.80
	11	8	8	100.0	774 ± 51.26	3369 ± 777.33	0.72
	12	5	5	100.0	843 ± 30.20	4566 ± 723.73	0.76
	13	2	2	100.0	786 ± 126.57	3470 ± 1739.48	0.68
	14	3	3	100.0	891 ± 119.00	7280 ± 3802.79	0.96
	16	1	1	100.0	924 ± -	7440 ± -	0.94
Total		59	56	94.9	719 ± 118.99	3104 ± 1787.07	0.75
Both	1	1	0	0.0	230 ± -	70 ± -	0.58
	2	1	0	0.0	241 ± -	70 ± -	0.50
	3	2	0	0.0	330 ± 12.02	225 ± 35.36	0.62
	4	3	3	100.0	374 ± 52.54	360 ± 121.66	0.67
	5	2	1	50.0	392 ± 16.97	365 ± 49.50	0.61
	6	6	6	100.0	556 ± 114.36	1363 ± 822.40	0.71
	7	6	4	66.7	614 ± 57.14	1498 ± 535.25	0.63
	8	16	16	100.0	680 ± 56.28	2279 ± 592.68	0.71
	9	17	17	100.0	712 ± 53.77	2794 ± 735.54	0.76
	10	13	13	100.0	735 ± 68.56	3105 ± 1154.92	0.76
	11	8	8	100.0	774 ± 51.26	3369 ± 777.33	0.72
	12	7	7	100.0	836 ± 35.77	4478 ± 778.90	0.76
	13	3	3	100.0	795 ± 90.70	3653 ± 1270.33	0.70
	14	4	4	100.0	876 ± 102.19	6710 ± 3307.63	0.94
	16	1	1	100.0	924 ± -	7440 ± -	0.94
Total		90	83	92.2	683 ± 152.31	2749 ± 1747.01	0.73

± s.d. = standard deviation.

Table 78. Age specific size and maturity conditions for northern pike from Costello Lake, 1985.

Sex	Age (Years)	Number	Number Mature	% Mature	$\overline{Fl}$ ± s.d. (mm)	$\overline{Wt.}$ ± s.d. (g)	Mean Condition Factor
Males	1	1	1	100.0	292 ± -	190 ± -	0.76
	2	4	3	75.0	320 ± 33.81	248 ± 63.97	0.74
	3	2	2	100.0	491 ± 9.90	660 ± 98.99	0.56
	4	3	3	100.0	482 ± 11.14	767 ± 72.34	0.68
	5	3	3	100.0	509 ± 16.04	847 ± 165.03	0.64
	6	2	2	100.0	560 ± 45.25	1160 ± 141.42	0.67
Total		15	14	93.3	443 ± 99.60	644 ± 342.61	0.68
Females	1	2	0	0.0	316 ± 8.49	240 ± 14.14	0.76
	2	7	4	57.1	375 ± 44.94	378 ± 131.71	0.69
	3	4	4	100.0	444 ± 42.72	598 ± 133.26	0.68
	4	11	11	100.0	503 ± 29.15	803 ± 134.77	0.63
	5	9	9	100.0	549 ± 29.27	1118 ± 207.47	0.67
	6	2	2	100.0	574 ± 79.20	1270 ± 579.83	0.65
	7	2	2	100.0	612 ± 28.28	1570 ± 650.54	0.67
	8	1	1	100.0	804 ± -	3400 ± -	0.65
Total		38	33	86.8	492 ± 101.03	881 ± 581.76	0.67
Both	1	3	1	33.3	308 ± 15.10	223 ± 30.55	0.76
	2	11	7	63.6	355 ± 48.10	331 ± 126.53	0.71
	3	6	6	100.0	460 ± 41.12	618 ± 116.86	0.64
	4	14	14	100.0	498 ± 27.40	795 ± 122.52	0.64
	5	12	12	100.0	539 ± 31.78	1050 ± 226.47	0.66
	6	4	4	100.0	567 ± 53.28	1215 ± 350.38	0.66
	7	2	2	100.0	612 ± 28.28	1570 ± 650.54	0.67
	8	1	1	100.0	804 ± -	3400 ± -	0.65
Total*		53	47	88.7	478 ± 102.09	814 ± 532.98	0.67

± s.d. = standard deviation.

* excludes 181 northern pike with unknown sex/maturity and age data plus one 2 year old with unknown sex or maturity data.

Table 79. Age specific size and maturity conditions for northern pike from Suwannee Lake, 1985.

Sex	Age (Years)	Number	Number Mature	% Mature	$\overline{Fl}$ ± s.d. (mm)	$\overline{Wt.}$ ± s.d. (g)	Mean Condition Factor
Males	1	4	0	0.0	312 ± 47.09	205 ± 98.83	0.64
	2	5	2	40.0	374 ± 50.71	400 ± 148.66	0.74
	3	7	7	100.0	466 ± 19.01	681 ± 66.69	0.67
	4	9	9	100.0	516 ± 31.97	892 ± 141.14	0.65
	5	6	6	100.0	553 ± 36.56	1053 ± 225.36	0.62
	6	2	2	100.0	541 ± 9.90	1120 ± 70.71	0.71
Total		33	26	78.8	467 ± 88.48	733 ± 325.68	0.66
Females	1	1	0	0.0	248 ± -	100 ± -	0.66
	2	1	0	0.0	314 ± -	220 ± -	0.71
	3	1	1	100.0	521 ± -	860 ± -	0.61
	4	6	6	100.0	516 ± 10.62	835 ± 103.30	0.61
	5	6	6	100.0	539 ± 50.72	943 ± 273.76	0.59
	6	2	2	100.0	642 ± 33.23	1780 ± 70.71	0.69
	7	4	4	100.0	653 ± 26.47	1932 ± 345.29	0.69
	9	1	1	100.0	709 ± -	2750 ± -	0.77
Total		22	20	90.9	546 ± 110.49	1177 ± 671.92	0.64
Both	1	5	0	0.0	299 ± 49.89	184 ± 97.62	0.64
	2	6	2	33.3	364 ± 51.47	370 ± 151.92	0.74
	3	8	8	100.0	473 ± 26.19	704 ± 88.31	0.66
	4	15	15	100.0	516 ± 24.99	869 ± 126.63	0.63
	5	12	12	100.0	546 ± 42.76	998 ± 245.87	0.61
	6	4	4	100.0	591 ± 61.38	1450 ± 385.40	0.70
	7	4	4	100.0	653 ± 26.47	1932 ± 345.29	0.69
	9	1	1	100.0	709 ± -	2750 ± -	0.77
Total*		55	46	83.6	499 ± 104.41	910 ± 535.39	0.65

± s.d. = standard deviation.

* excludes 227 northern pike with unknown sex/maturity and age data.

Table 80. Age specific size and maturity conditions for northern pike from Notigi Lake, 1985.

Sex	Age (Years)	Number	Number Mature	% Mature	$\overline{FL}$ ± s.d. (mm)	$\overline{Wt.}$ ± s.d. (g)	Mean Condition Factor
Males	6	4	4	100.0	612 ± 53.70	1775 ± 682.03	0.75
	7	6	6	100.0	615 ± 96.62	1697 ± 708.40	0.70
	8	6	6	100.0	631 ± 37.22	1830 ± 429.46	0.72
	9	3	3	100.0	663 ± 20.82	2160 ± 222.71	0.74
	11	1	1	100.0	636 ± -	1860 ± -	0.72
Total		20	20	100.0	627 ± 60.26	1830 ± 531.75	0.72
Females	3	1	0	0.0	294 ± -	180 ± -	0.71
	4	1	0	0.0	336 ± -	360 ± -	0.95
	5	3	0	0.0	521 ± 81.64	967 ± 540.49	0.64
	6	1	1	100.0	642 ± -	1640 ± -	0.62
	7	5	5	100.0	641 ± 52.85	1888 ± 362.78	0.70
	8	11	11	100.0	646 ± 48.30	1987 ± 351.89	0.72
	9	7	6	85.7	710 ± 53.37	2574 ± 392.81	0.71
	10	5	5	100.0	735 ± 45.97	3028 ± 817.14	0.75
	11	5	5	100.0	785 ± 69.84	3448 ± 1008.33	0.70
	13	1	1	100.0	858 ± -	4420 ± -	0.70
Total		40	34	85.0	664 ± 119.38	2280 ± 1061.44	0.71
Both	3	1	0	0.0	294 ± -	180 ± -	0.71
	4	1	0	0.0	336 ± -	360 ± -	0.95
	5	3	0	0.0	521 ± 81.64	967 ± 540.49	0.64
	6	5	5	100.0	618 ± 48.46	1748 ± 593.73	0.72
	7	11	11	100.0	627 ± 77.31	1784 ± 622.56	0.70
	8	17	17	100.0	640 ± 44.08	1932 ± 503.99	0.72
	9	10	9	90.0	696 ± 50.12	2450 ± 534.19	0.72
	10	5	5	100.0	735 ± 45.97	3028 ± 817.14	0.75
	11	6	6	100.0	760 ± 87.13	3183 ± 1110.71	0.70
	13	1	1	100.0	858 ± -	4420 ± -	0.70
Total*		60	54	90.0	652 ± 104.40	2130 ± 938.91	0.72

± s.d. = standard deviation.

* excludes two pike (ages 7 and 10) with unknown sex and maturity.

Table 81. Age specific size and maturity conditions for northern pike from Wapisu Lake, 1985.

Sex	Age (Years)	Number	Number Mature	% Mature	$\overline{Fl}$ ± s.d. (mm)	$\overline{Wt.}$ ± s.d. (g)	Mean Condition Factor
Males	1	2	1	50.0	279 ± 41.01	150 ± 70.71	0.66
	4	1	1	100.0	342 ± -	240 ± -	0.60
	5	1	1	100.0	518 ± -	900 ± -	0.65
	6	5	5	100.0	601 ± 12.77	1488 ± 131.61	0.68
	7	4	4	100.0	626 ± 34.79	1765 ± 309.57	0.72
	8	2	2	100.0	653 ± 94.75	2280 ± 1357.65	0.77
	9	1	1	100.0	652 ± -	2080 ± -	0.75
	11	1	1	100.0	674 ± -	2160 ± -	0.71
Total		17	16	94.1	562 ± 133.83	1455 ± 791.90	0.70
Females	1	1	0	0.0	270 ± -	140 ± -	0.71
	2	1	1	100.0	406 ± -	380 ± -	0.57
	3	1	1	100.0	418 ± -	520 ± -	0.71
	4	1	0	0.0	330 ± -	260 ± -	0.72
	5	3	3	100.0	587 ± 12.22	1340 ± 7.06	0.66
	6	1	1	100.0	580 ± -	1320 ± -	0.68
	7	3	3	100.0	634 ± 26.23	1847 ± 15.14	0.72
	8	1	1	100.0	608 ± -	1160 ± -	0.52
	9	5	5	100.0	686 ± 76.61	2288 ± 34.26	0.68
	10	2	2	100.0	701 ± 29.70	2550 ± 21.00	0.74
	11	2	2	100.0	788 ± 50.91	3585 ± 36.00	0.73
	12	1	1	100.0	946 ± -	6540 ± -	0.77
	13	1	1	100.0	822 ± -	4480 ± -	0.81
	14	1	1	100.0	778 ± -	4100 ± -	0.87
Total		24	22	91.7	635 ± 159.63	2174 ± 32.58	0.70
Both	1	3	1	33.3	276 ± 29.46	147 ± 50.53	0.68
	2	1	1	100.0	406 ± -	380 ± -	0.57
	3	1	1	100.0	418 ± -	520 ± -	0.71
	4	2	1	50.0	336 ± 8.49	250 ± 14.14	0.66
	5	4	4	100.0	560 ± 35.75	1230 ± 308.33	0.66
	6	6	6	100.0	597 ± 14.24	1460 ± 136.24	0.68
	7	7	7	100.0	629 ± 29.21	1800 ± 366.42	0.72
	8	3	3	100.0	638 ± 71.86	1907 ± 1157.47	0.68
	9	6	6	100.0	681 ± 69.94	2253 ± 715.84	0.69
	10	2	2	100.0	701 ± 29.70	2550 ± 212.13	0.74
	11	3	3	100.0	750 ± 75.02	3110 ± 975.96	0.72
	12	1	1	100.0	946 ± -	6540 ± -	0.77
	13	1	1	100.0	822 ± -	4480 ± -	0.81
	14	1	1	100.0	778 ± -	4100 ± -	0.87
Total*		41	38	92.7	605 ± 152.04	1876 ± 1316.04	0.70

± s.d. = standard deviation.

* excludes one immature female pike with an unknown age.

Table 82. Age specific size and maturity conditions for northern pike from Footprint Lake, 1985.

Sex	Age (Years)	Number	Number Mature	% Mature	$\overline{Fl}$ ± s.d. (mm)	$\overline{Wt.}$ ± s.d. (g)	Mean Condition Factor
Males	2	1	1	100.0	342 ± -	280 ± -	0.70
	3	3	3	100.0	358 ± 16.44	290 ± 43.59	0.63
	4	2	2	100.0	358 ± 9.90	290 ± 14.14	0.64
	5	2	2	100.0	424 ± 23.33	470 ± 98.99	0.61
	6	1	1	100.0	458 ± -	600 ± -	0.62
	8	1	1	100.0	554 ± -	1040 ± -	0.61
Total		10	10	100.0	399 ± 67.95	431 ± 244.61	0.63
Females	2	2	1	50.0	338 ± 33.94	285 ± 91.92	0.73
	3	11	8	72.7	388 ± 33.74	373 ± 90.23	0.63
	4	7	6	85.7	427 ± 48.17	524 ± 167.02	0.66
	5	9	7	77.8	458 ± 53.57	630 ± 233.02	0.63
	6	6	6	100.0	499 ± 39.05	790 ± 215.87	0.62
	7	3	3	100.0	547 ± 90.07	1240 ± 632.38	0.70
Total		38	31	81.6	439 ± 70.46	591 ± 328.05	0.65
Both	2	3	2	66.7	339 ± 24.11	283 ± 65.06	0.72
	3	14	11	78.6	381 ± 32.76	355 ± 88.30	0.63
	4	9	8	88.9	412 ± 51.87	472 ± 177.82	0.65
	5	11	9	81.8	452 ± 50.33	601 ± 220.47	0.63
	6	7	7	100.0	493 ± 38.92	763 ± 209.74	0.62
	7	3	3	100.0	547 ± 90.07	1240 ± 632.38	0.70
	8	1	1	100.0	554 ± -	1040 ± -	0.61
Total		48	41	85.4	431 ± 71.13	558 ± 317.03	0.64

± s.d. = standard deviation.

Table 83. Age specific size and maturity conditions for northern pike from Threepoint Lake, 1985.

Sex	Age (Years)	Number	Number Mature	% Mature	$\overline{FL}$ ± s.d. (mm)	$\overline{Wt.}$ ± s.d. (g)	Mean Condition Factor
Males	1	1	0	0.0	245 ± -	90 ± -	0.61
	2	5	1	20.0	293 ± 19.61	178 ± 28.64	0.70
	3	4	4	100.0	406 ± 53.83	458 ± 161.32	0.66
	5	1	1	100.0	472 ± -	580 ± -	0.55
	6	1	1	100.0	540 ± -	1100 ± -	0.70
	7	2	2	100.0	552 ± 42.43	1195 ± 346.48	0.70
	8	1	1	100.0	601 ± -	1520 ± -	0.70
	9	2	2	100.0	602 ± 13.44	1483 ± 106.07	0.69
Total		17	12	70.6	427 ± 131.01	669 ± 544.01	0.68
Females	2	4	0	0.0	311 ± 31.04	202 ± 57.37	0.66
	3	2	0	0.0	347 ± 21.21	265 ± 35.36	0.64
	4	1	1	100.0	392 ± -	370 ± -	0.61
	5	4	4	100.0	516 ± 56.20	983 ± 293.41	0.70
	6	1	1	100.0	443 ± -	590 ± -	0.68
	7	8	8	100.0	620 ± 50.93	1829 ± 533.68	0.75
	8	7	7	100.0	708 ± 55.70	2753 ± 816.20	0.76
	9	3	3	100.0	817 ± 15.72	4513 ± 289.37	0.83
	10	2	2	100.0	799 ± 123.04	4760 ± 2489.02	0.89
Total		32	26	81.3	588 ± 172.78	1975 ± 1593.55	0.74
Both	1	1	0	0.0	245 ± -	90 ± -	0.61
	2	9	1	11.1	301 ± 25.28	189 ± 42.56	0.69
	3	6	4	66.7	386 ± 52.36	393 ± 160.46	0.65
	4	1	1	100.0	392 ± -	370 ± -	0.61
	5	5	5	100.0	507 ± 52.41	902 ± 311.40	0.67
	6	2	2	100.0	492 ± 68.59	845 ± 360.62	0.69
	7	10	10	100.0	606 ± 55.13	1702 ± 533.41	0.74
	8	8	8	100.0	695 ± 64.05	2599 ± 872.36	0.75
	9	5	5	100.0	731 ± 118.20	3302 ± 1672.10	0.77
	10	2	2	100.0	799 ± 123.04	4760 ± 2489.02	0.89
Total		49	38	77.6	532 ± 176.01	1522 ± 1460.51	0.72

± s.d. = standard deviation.

Table 84. Age specific size and maturity conditions for northern pike from Birch Tree Lake, 1985.

Sex	Age (Years)	Number	Number Mature	% Mature	$\overline{Fl} \pm$ s.d. (mm)	$\overline{Wt.} \pm$ s.d. (g)	Mean Condition Factor
Males	3	2	2	100.0	342 ± 31.11	250 ± 70.71	0.62
	4	3	3	100.0	468 ± 42.76	847 ± 70.24	0.87
Total		5	5	100.0	418 ± 76.93	608 ± 332.45	0.77
Females	3	2	0	0.0	367 ± 24.04	370 ± 70.71	0.75
	5	2	2	100.0	545 ± 148.49	1280 ± 1046.52	0.69
	6	4	3	75.0	520 ± 20.16	950 ± 114.89	0.67
	7	3	3	100.0	639 ± 166.69	2893 ± 1054.58	1.26
	9	2	2	100.0	782 ± 31.11	3810 ± 268.70	0.80
	10	1	1	100.0	886 ± -	5380 ± -	0.77
	12	1	1	100.0	1000 ± -	8060 ± -	0.81
Total		15	12	80.0	618 ± 194.33	2456 ± 2206.68	0.83
Both	3	4	2	50.0	355 ± 26.90	310 ± 90.18	0.68
	4	3	3	100.0	468 ± 42.76	847 ± 70.24	0.87
	5	2	2	100.0	545 ± 148.49	1280 ± 1046.52	0.69
	6	4	3	75.0	520 ± 20.16	950 ± 114.89	0.67
	7	3	3	100.0	639 ± 166.69	2893 ± 1054.58	1.26
	9	2	2	100.0	782 ± 31.11	3810 ± 268.70	0.80
	10	1	1	100.0	886 ± -	5380 ± -	0.77
	12	1	1	100.0	1000 ± -	8060 ± -	0.81
Total		20	17	85.0	568 ± 192.32	1994 ± 2070.10	0.82

± s.d. standard deviation.

Table 85. Length - weight regressions for fish caught from Pemichigamau Lake, 1985.

Species	Length-weight equation	r	n
Whitefish	$\log_e$ weight = -12.02 + 3.152 $\log_e$ length	0.992	36
Walleye	$\log_e$ weight = -12.85 + 3.237 $\log_e$ length	0.988	213
Northern pike	$\log_e$ weight = -13.68 + 3.284 $\log_e$ length	0.991	90
Cisco	$\log_e$ weight = -13.85 + 3.470 $\log_e$ length	0.971	47
Longnose sucker	$\log_e$ weight = -13.86 + 3.474 $\log_e$ length	0.999	4

Table 86. Length - weight regressions for fish caught from Costello Lake, 1985.

Species	Length-weight equation	r	n
Whitefish	$\log_e$ weight = -11.79 + 3.147 $\log_e$ length	0.984	20
Walleye	$\log_e$ weight = - 6.96 + 2.263 $\log_e$ length	0.924	121
Northern pike	$\log_e$ weight = - 9.47 + 2.597 $\log_e$ length	0.974	235
Cisco	$\log_e$ weight = -12.23 + 3.230 $\log_e$ length	0.943	47
White sucker	$\log_e$ weight = - 9.47 + 2.722 $\log_e$ length	0.933	348
Yellow perch	$\log_e$ weight = -12.46 + 3.247 $\log_e$ length	0.981	92

Table 87. Length - weight regressions for fish caught from Suwannee Lake, 1985.

Species	Length-weight equation	r	n
Whitefish	$\log_e$ weight = -14.65 + 3.617 $\log_e$ length	0.984	169
Walleye	$\log_e$ weight = -13.29 + 3.310 $\log_e$ length	0.992	34
Northern pike	$\log_e$ weight = - 9.86 + 2.662 $\log_e$ length	0.962	282
Cisco	$\log_e$ weight = -12.74 + 3.284 $\log_e$ length	0.966	5
White sucker	$\log_e$ weight = -10.530+ 2.899 $\log_e$ length	0.941	234
Yellow perch	$\log_e$ weight = - 9.87 + 2.768 $\log_e$ length	0.926	148

Table 88. Length - weight regressions for fish caught from Notigi Lake, 1985.

Species	Length-weight equation	r	n
Whitefish	$\log_e$ weight = -11.74 + 3.105 $\log_e$ length	0.986	88
Walleye	$\log_e$ weight = -12.72 + 3.225 $\log_e$ length	0.993	25
Northern pike	$\log_e$ weight = -11.78 + 2.989 $\log_e$ length	0.981	62
Cisco	$\log_e$ weight = -10.34 + 2.853 $\log_e$ length	0.940	70

Table 89. Length - weight regressions for fish caught from Wapisu Lake, 1985.

Species	Length-weight equation	r	n
Whitefish	$\log_e$ weight = -10.94 + 2.953 $\log_e$ length	0.986	39
Walleye	$\log_e$ weight = -10.64 + 2.865 $\log_e$ length	0.987	107
Sauger	$\log_e$ weight = -10.70 + 2.850 $\log_e$ length	0.986	22
Northern pike	$\log_e$ weight = -12.70 + 3.125 $\log_e$ length	0.994	42
Cisco	$\log_e$ weight = -13.08 + 3.332 $\log_e$ length	0.979	41
White sucker	$\log_e$ weight = -10.65 + 2.926 $\log_e$ length	0.950	68
Longnose sucker	$\log_e$ weight = - 8.65 + 2.600 $\log_e$ length	0.962	4
Burbot	$\log_e$ weight = -11.26 + 2.923 $\log_e$ length	0.991	13

Table 90. Length - weight regressions for fish caught from Footprint Lake, 1985.

Species	Length-weight equation	r	n
Whitefish	$\log_e$ weight = -10.49 + 2.904 $\log_e$ length	0.952	187
Walleye	$\log_e$ weight = -10.58 + 2.842 $\log_e$ length	0.994	63
Sauger	$\log_e$ weight = - 9.69 + 2.682 $\log_e$ length	0.914	5
Northern pike	$\log_e$ weight = -11.82 + 2.976 $\log_e$ length	0.982	48
Cisco	$\log_e$ weight = -11.61 + 3.098 $\log_e$ length	0.991	296
White sucker	$\log_e$ weight = -13.93 + 3.478 $\log_e$ length	0.862	9
Burbot	$\log_e$ weight = - 7.52 + 2.345 $\log_e$ length	0.844	49

Table 91. Length - weight regressions for fish caught from Threepoint Lake, 1985.

Species	Length-weight equation	r	n
Whitefish	$\log_e$ weight = -12.66 + 3.256 $\log_e$ length	0.992	68
Walleye	$\log_e$ weight = -11.84 + 3.066 $\log_e$ length	0.998	59
Sauger	$\log_e$ weight = -11.86 + 3.044 $\log_e$ length	0.972	13
Northern pike	$\log_e$ weight = -12.98 + 3.181 $\log_e$ length	0.996	49
Cisco	$\log_e$ weight = -12.45 + 3.229 $\log_e$ length	0.955	36
White sucker	$\log_e$ weight = -11.65 + 3.082 $\log_e$ length	0.977	94
Longnose sucker	$\log_e$ weight = -16.57 + 3.892 $\log_e$ length	0.992	6
Yellow perch	$\log_e$ weight = -11.45 + 3.072 $\log_e$ length	0.981	5

Table 92. Length - weight regressions for fish caught from lakes in the Rat-Burntwood River system, 1985.

Species	Length-weight equation	r	n
Whitefish	$\log_e$ weight = -13.74 + 3.458 $\log_e$ length	0.991	34
Walleye	$\log_e$ weight = -12.14 + 3.119 $\log_e$ length	0.992	17
Northern pike	$\log_e$ weight = -12.14 + 3.061 $\log_e$ length	0.963	20
Cisco	$\log_e$ weight = -14.71 + 3.615 $\log_e$ length	0.992	18
White sucker	$\log_e$ weight = -12.88 + 3.296 $\log_e$ length	0.988	7
Longnose sucker	$\log_e$ weight = - 8.08 + 2.481 $\log_e$ length	0.948	4
Shorthead redhorse sucker	$\log_e$ weight = -10.88 + 2.971 $\log_e$ length	0.983	7

LITERATURE CITED

Green, D. J. 1986. Summary of fish mercury data collected from lakes on the Rat - Burntwood and Nelson River Systems, 1983-1985. Man. Dept. of Nat. Res. Fish. Br. MS Report No. 86-06. 359 p.

ACKNOWLEDGEMENTS

The author wishes to thank the following list of people who assisted in field data collection: I. Hagenson, J. Patalas, J. Kirton, M. Moody, S. Hart and D. Dysart.

Laureen Livingston helped with table summaries.

Merle McTaggart typed this manuscript.